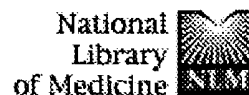


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<input type="checkbox"/>	L29	L28 AND tyrosine kinase	128
<input type="checkbox"/>	L28	L27 AND insulin receptor	164
<input type="checkbox"/>	L27	PIR	23861
<input type="checkbox"/>	L26	hGrb14	0
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<input type="checkbox"/>	L23	L22 AND hGrb14	0
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<input type="checkbox"/>	L20	L18 AND PIR	165
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
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
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
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
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
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
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
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

















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
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
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

















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
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
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
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


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


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








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
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
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
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
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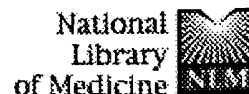
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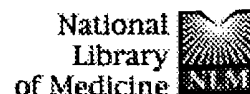
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
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
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
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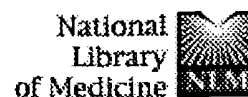
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MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, PROUSDDR, RDISCLOSURE, SYNTHLINE'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L1  
L2 156 DUP REM L1 (204 DUPLICATES REMOVED)

=> D L2 1-156

L2 ANSWER 1 OF 156 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 1  
AN 2004-13578 BIOTECHDS  
TI Diagnosing pancreatic cancer (PNC) comprises determining a level of  
expression of a PNC-associated gene in a patient derived biological  
sample;  
gene expression level determination and antisense sequence for use in  
disease therapy and gene therapy  
AU NAKAMURA Y; KATAGIRI T  
PA ONCOTHERAPY SCI INC; UNIV TOKYO  
PI WO 2004031412 15 Apr 2004  
AI WO 2003-JP11817 17 Sep 2003  
PRAI US 2003-450889 28 Feb 2003; US 2002-414872 30 Sep 2002  
DT Patent  
LA English  
OS WPI: 2004-330205 [30]

L2 ANSWER 2 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2  
AN 2004:371064 CAPLUS  
DN 140:373461  
TI Evaluation of breast cancer states and outcomes using gene expression  
profiles  
IN West, Mike; Nevins, Joseph R.; Huang, Andrew  
PA Synpac, Inc., USA  
SO PCT Int. Appl., 799 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004037996	A2	20040506	WO 2003-US33656	20031024
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004083084	A1	20040429	US 2002-291878	20021112
	US 2004106113	A1	20040603	US 2002-291886	20021112
PRAI	US 2002-420729P	P	20021024		
	US 2002-421062P	P	20021025		
	US 2002-421102P	P	20021025		
	US 2002-424701P	P	20021108		
	US 2002-424715P	P	20021108		
	US 2002-424718P	P	20021108		
	US 2002-291878	A	20021112		
	US 2002-291886	A	20021112		
	US 2002-425256P	P	20021112		
	WO 2002-US38216	A	20021112		
	WO 2002-US38222	A	20021112		
	US 2003-448461P	P	20030221		
	US 2003-448462P	P	20030221		
	US 2003-457877P	P	20030327		
	US 2003-458373P	P	20030331		

L2 ANSWER 3 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3  
AN 2004:311060 CAPLUS  
DN 140:333607  
TI Differentially nucleic acids and encoded proteins useful for diagnosing  
testicular seminomas  
IN Nakamura, Yusuke; Katagiri, Toyomasa  
PA Oncotherapy Science, Inc., Japan; Japan as Represented by the President of  
the University of Tokyo  
SO PCT Int. Appl., 120 pp.  
CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004031410	A2	20040415	WO 2003-JP11711	20030912
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2002-414677P	P	20020930		

L2 ANSWER 4 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 4

AN 10614099 IFIPAT;IFIUDB;IFICDB

TI MRNA BINDING MOTIF

IN Balmer Lois (AU); Leedman Peter J (AU); Thomson Andrew (AU)

PA Unassigned Or Assigned To Individual (68000)

PI US 2004121323 A1 20040624

AI US 2000-168781 20001222

WO 2000-AU1595 20001222

20001222 PCT 371 date

20001222 PCT 102(e) date

PRAI AU 1999-4835 19991223

FI US 2004121323 20040624

DT Utility; Patent Application - First Publication

FS CHEMICAL  
APPLICATION

CLMN 14

GI 16 Figure(s).

FIG. 1 shows a schematic of the Grb7 family members.

FIG. 2A, FIG. 2B, FIG. 2C, FIG. 2D, FIG. 2E and FIG. 2F show regulation of EGF-R mRNA expression by EGF in MDA-468 and BT-20 human breast cancer cells, including Northern, Western blot and actinomycin D chase assays.

FIG. 3A, FIG. 3B, FIG. 3C, FIG. 3D, FIG. 3E, FIG. 3F, FIG. 3G and FIG. 3H show a schematic of EGF-R mRNA, the clones generated for transfection and RNA electrophoretic gel mobility shift assay (REMSA), as well as data from transfections and cell free mRNA decay assay.

FIG. 4A, FIG. 4B, FIG. 4C, FIG. 4D and FIG. 4E show results of multiple transfections into breast cancer cells, and assays of mRNA decay using the LightCycler.

FIG. 5A and FIG. 5B show REMSA and UV cross-linking assays with a variety of cell extracts and riboprobes.

FIG. 6A and FIG. 6B show specificity of binding for the EGF-R mRNA probe used as bait in the yeast three-hybrid screening.

FIG. 7A, FIG. 7B, FIG. 7C and FIG. 7D show REMSA using sense and antisense DNA oligomers, as well as RNA probe mutants to define the RNA binding site within the EGF-R bait.

FIG. 8A, FIG. 8B and FIG. 8C show a schematic of the yeast threehybrid screening method, REMSA with Grb7 and other antibodies as well as a UV cross-linking Western assay using Grb7 antibodies (SengGupta et al., 1996).

FIG. 9A shows a schematic illustrating the amino acid homology between the Grb7 family members and the KH-motif. FIG. 9B and FIG. 9C show the predicted secondary structure of the Grb7 mRNA binding motif.

FIG. 10A and FIG. 10B show a schematic of Grb7 family member GSTfusion proteins, a REMSA using GST-Grb7 fusion protein with EGFR mRNA and REMSA with unlabeled RNA competitors.

FIG. 11A, FIG. 11B, FIG. 11C, FIG. 11D, FIG. 11E and FIG. 11F show a schematic of the GST-Grb7 mutants, REMSA using the Grb7 mutants with EGF-R 2/2A riboprobe and REMSA with different EGFR mRNA probes with each of the mutants demonstrating RNA specificity.

FIG. 12A and FIG. 12B show the sequence of the erbB-2 riboprobe used, and a REMSA showing binding of Grb7 and Grb10 to erbB-1 and erbB-2 mRNA.

FIG. 13A and FIG. 13B show REMSA binding of Grb7 and two mutants to EGF-R and erbB-2 mRNAs, together with sequence comparisons and stem-loop plots of the RNA structures.

FIG. 14A and FIG. 14B show binding by GST-Grb10 and GST-\*\*\*Grb14\*\*\* to erbB-2 mRNA. A competition REMSA with tRNA using Grb7-M3 mutant confirmed specificity to the erbB-2 mRNA probe.

FIG. 15A and FIG. 15B show immunoprecipitation reverse transcriptase polymerase chain reaction (IP-RT-PCR) assay using Grb7 antibodies and EGF-R primers and a western blot of EGF-R levels in cells overexpressing Grb7.

FIG. 16 shows an actinomycin D chase to determine the rate of EGF-R mRNA decay in stably transfected MDA-468 cells that overexpress Grb7.

L2 ANSWER 5 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:449883 CAPLUS

DN 140:402911

TI Binary prediction tree modeling with many predictors and its uses in clinical and genomic applications

IN Nevins, Joseph R.; West, Mike; Huang, Andrew T.

PA Duke University, USA

SO PCT Int. Appl., 886 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004038376	A2	20040506	WO 2003-XA33946	20031024
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	WO 2004038376	A2	20040506	WO 2003-US33946	20031024
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2002-420729P	P	20021024		
	US 2002-421062P	P	20021025		
	US 2002-421102P	P	20021025		
	US 2002-424701P	P	20021108		
	US 2002-424715P	P	20021108		
	US 2002-424718P	P	20021108		
	US 2002-425256P	P	20021112		
	US 2003-448461P	P	20030221		
	US 2003-448462P	P	20030221		
	US 2003-457877P	P	20030327		
	US 2003-458373P	P	20030331		
	WO 2003-US33946	A	20031024		

L2 ANSWER 6 OF 156 USPATFULL on STN

AN 2004:50778 USPATFULL

TI Gene expression in bladder tumors

IN Orntoft, Torben F., Aabyhoj, DENMARK

PI US 2004038207 A1 20040226

AI US 2001-951968 A1 20010914 (9)

RLI Division of Ser. No. US 2000-510643, filed on 22 Feb 2000, UNKNOWN

DT Utility

FS APPLICATION

LN.CNT 28561

INCL INCLM: 435/006.000

NCL NCLM: 435/006.000

IC [7]

ICM: C12Q001-68

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 156 USPATFULL on STN

AN 2004:24686 USPATFULL

TI Methods and compositions for the prediction, diagnosis, prognosis,  
 prevention and treatment of malignant neoplasma  
 IN Wirtz, Ralph, Koln, GERMANY, FEDERAL REPUBLIC OF  
 Munnes, Marc, Erkrath, GERMANY, FEDERAL REPUBLIC OF  
 Kallabis, Harald, Koln, GERMANY, FEDERAL REPUBLIC OF  
 PA Bayer Aktiengesellschaft, Leverkusen, GERMANY, FEDERAL REPUBLIC OF, D  
 51368 (non-U.S. corporation)  
 PI US 2004018525 A1 20040129  
 AI US 2003-435696 A1 20030509 (10)  
 PRAI EP 2002-10291 20020521  
 EP 2003-3112 20030213  
 DT Utility  
 FS APPLICATION  
 LN.CNT 12945  
 INCL INCLM: 435/006.000  
 NCL NCLM: 435/006.000  
 IC [7]  
 ICM: C12Q001-68  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 156 USPATFULL on STN  
 AN 2004:13596 USPATFULL  
 TI Novel proteins and nucleic acids encoding same  
 IN Guo, Xiaojia, Branford, CT, UNITED STATES  
 Fernandes, Elma, Branford, CT, UNITED STATES  
 Li, Li, Branford, CT, UNITED STATES  
 Kekuda, Ramesh, Stamford, CT, UNITED STATES  
 Liu, Yi, New Haven, CT, UNITED STATES  
 Leite, Mario, Milford, CT, UNITED STATES  
 Spytek, Kimberly A., New Haven, CT, UNITED STATES  
 Ji, Weizhen, Branford, CT, UNITED STATES  
 Casman, Stacie J., North Haven, CT, UNITED STATES  
 Boldog, Ference L., North Haven, CT, UNITED STATES  
 Patturajan, Meera, Branford, CT, UNITED STATES  
 Vernet, Corine A. M., Branford, CT, UNITED STATES  
 Ballinger, Robert A., Newington, CT, UNITED STATES  
 Malyankar, Uriel M., Branford, CT, UNITED STATES  
 Tchernev, Velizar T., Branford, CT, UNITED STATES  
 Blalock, Angela D., Branford, CT, UNITED STATES  
 Gusev, Vladimir Y., Madison, CT, UNITED STATES  
 Rastelli, Luca, Guilford, CT, UNITED STATES  
 Mezes, Peter D., Old Lyme, CT, UNITED STATES  
 Ellerman, Karen, Branford, CT, UNITED STATES  
 Heyes, Melvyn, New Haven, CT, UNITED STATES  
 Herrmann, John L., Guilford, CT, UNITED STATES  
 Shimkets, Richard A., Guilford, CT, UNITED STATES  
 Ioime, Noelle, Hamden, CT, UNITED STATES  
 Pena, Carol E. A., New Haven, CT, UNITED STATES  
 Shenoy, Suresh G., Branford, CT, UNITED STATES  
 Taupier, Raymond J., JR., East Haven, CT, UNITED STATES  
 Gerlach, Valerie, Branford, CT, UNITED STATES  
 Gorman, Linda, East Haven, CT, UNITED STATES  
 PI US 2004010119 A1 20040115  
 AI US 2002-74978 A1 20020212 (10)  
 PRAI US 2001-268221P 20010212 (60)  
 US 2001-268496P 20010213 (60)  
 US 2001-268665P 20010214 (60)  
 US 2001-268646P 20010214 (60)  
 US 2001-269136P 20010215 (60)  
 US 2001-269310P 20010216 (60)  
 US 2001-269530P 20010216 (60)  
 US 2001-276405P 20010315 (60)  
 US 2001-276703P 20010316 (60)  
 US 2001-276399P 20010316 (60)  
 US 2001-278199P 20010323 (60)  
 US 2001-279274P 20010328 (60)  
 US 2001-280238P 20010330 (60)  
 US 2001-280899P 20010402 (60)  
 US 2001-310797P 20010808 (60)  
 US 2001-312284P 20010814 (60)  
 US 2001-322294P 20010914 (60)  
 US 2001-322295P 20010914 (60)  
 US 2001-330293P 20011018 (60)  
 US 2001-335104P 20011031 (60)  
 US 2001-335109P 20011031 (60)  
 US 2001-332127P 20011121 (60)

US 2001-331772P 20011121 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 23189  
INCL INCLM: 530/350.000  
INCLS: 514/012.000; 435/006.000; 435/069.100; 435/320.100; 435/325.000;  
536/023.200  
NCL NCLM: 530/350.000  
NCLS: 514/012.000; 435/006.000; 435/069.100; 435/320.100; 435/325.000;  
536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; A61K038-17; C07K014-435; C07K014-47; C12P021-02;  
C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5  
AN 2004:539519 CAPLUS  
TI Regulation and functional roles of \*\*\*Grb14\*\*\*  
AU Cariou, Bertrand; Bereziat, Veronique; Moncoq, Karine; Kasus-Jacobi, Anne;  
Perdereau, Dominique; Le Marcis, Veronique; Burnol, Anne-Francoise  
CS Dep. Endocrinol., Inst. Cochin INSERM U 567-CNRS UMR 8104, Univ. Rene  
Descartes, Paris, 75014, Fr.  
SO Frontiers in Bioscience (2004), 9(2), 1626-1636  
CODEN: FRBIF6; ISSN: 1093-4715  
URL: <http://www.bioscience.org/2004/v9/af/1228/pdf.pdf>  
PB Frontiers in Bioscience  
DT Journal; (online computer file)  
LA English

L2 ANSWER 10 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 2004:240131 SCISEARCH  
GA The Genuine Article (R) Number: 779ZA  
TI Regulation and functional roles of \*\*\*Grb14\*\*\*  
AU Cariou B; Bereziat V; Moncoq K; Kasus-Jacobi A; Perdereau D; Le Marcis V;  
Burnol A F (Reprint)  
CS Univ Paris 05, CNRS, UMR 8104, Dept Endocrinol, INSERM, U567, Inst Cochin,  
F-75014 Paris, France (Reprint); Fac Pharm Paris V, Lab Cristallog & RMN  
Biol, F-75006 Paris, France  
CYA France  
SO FRONTIERS IN BIOSCIENCE, (MAY 2004) Vol. 9, pp. 1626-1636.  
Publisher: FRONTIERS IN BIOSCIENCE INC, C/O NORTH SHORE UNIV HOSPITAL,  
BIOMEDICAL RESEARCH CENTER, 350 COMMUNITY DR, MANHASSET, NY 11030 USA.  
ISSN: 1093-9946.  
DT Article; Journal  
LA English  
REC Reference Count: 86  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L2 ANSWER 11 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:471136 CAPLUS  
TI Increased adipose tissue expression of \*\*\*Grb14\*\*\* in several models  
of insulin resistance  
AU Carfiou, Bertrand; Capitaine, Nadege; Le Marcis, Veronique; Vega,  
Nathalie; Bereziat, Veronique; Kergoat, Micheline; Laville, Martine;  
Girard, Jean; Vidal, Hubert; Burnol, Anne-Francoise  
CS Dep. d'Endocrinol., Inst. Cochin INSERM U 567-CNRS UMR 8104, Univ. Rene  
Descartes, Paris, 75674, Fr.  
SO FASEB Journal (2004), 18(9), 965-967, 10.1096/fj.03-0824fje  
CODEN: FAJOEC; ISSN: 0892-6638  
PB Federation of American Societies for Experimental Biology  
DT Journal  
LA English  
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 156 MEDLINE on STN  
AN 2004279843 IN-PROCESS  
DN PubMed ID: 15059968  
TI Increased adipose tissue expression of \*\*\*Grb14\*\*\* in several models  
of insulin resistance.  
AU Cariou Bertrand; Capitaine Nadege; Le Marcis Veronique; Vega Nathalie;  
Bereziat Veronique; Kergoat Micheline; Laville Martine; Girard Jean; Vidal  
Hubert; Burnol Anne-Francoise  
CS Departement d'Endocrinologie, Institut Cochin INSERM U 567-CNRS UMR  
8104-Universite Rene Descartes, Paris, France.

SO FASEB journal : official publication of the Federation of American  
Societies for Experimental Biology, (2004 Jun) 18 (9) 965-7.  
Journal code: 8804484. ISSN: 1530-6860.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 20040608  
Last Updated on STN: 20040608

L2 ANSWER 13 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6  
AN 2004:114768 CAPLUS  
DN 140:315199  
TI Grb10 exceeding the boundaries of a common signaling adapter  
AU Riedel, Heimo  
CS Department of Biological Sciences, Wayne State University, Detroit, MI,  
48202, USA  
SO Frontiers in Bioscience (2004), 9(1), 603-618  
CODEN: FRBIF6; ISSN: 1093-4715  
URL: <http://www.bioscience.org/2004/v9/af/1227/pdf.pdf>  
PB Frontiers in Bioscience  
DT Journal; General Review; (online computer file)  
LA English  
RE.CNT 105 THERE ARE 105 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 2003:1051167 SCISEARCH  
GA The Genuine Article (R) Number: 746XW  
TI Grb10 exceeding the boundaries of a common signaling adapter  
AU Riedel H (Reprint)  
CS Wayne State Univ, Dept Biol Sci, 2171 BSB, Detroit, MI 48202 USA  
(Reprint); Wayne State Univ, Dept Biol Sci, Detroit, MI 48202 USA  
CYA USA  
SO FRONTIERS IN BIOSCIENCE, (JAN 2004) Vol. 9, pp. 603-618.  
Publisher: FRONTIERS IN BIOSCIENCE INC, C/O NORTH SHORE UNIV HOSPITAL,  
BIOMEDICAL RESEARCH CENTER, 350 COMMUNITY DR, MANHASSET, NY 11030 USA.  
ISSN: 1093-9946.  
DT General Review; Journal  
LA English  
REC Reference Count: 105  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L2 ANSWER 15 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 7  
AN 2004:244934 BIOSIS  
DN PREV200400246629  
TI Improved glucose homeostasis and enhanced insulin signalling in  
\*\*\*Grb14\*\*\* -deficient mice.  
AU Cooney, Gregory J.; Lyons, Ruth J.; Crew, A. Jayne; Jensen, Thomas E.;  
Molero, Juan Carlos; Mitchell, Christopher J.; Biden, Trevor J.; Ormandy,  
Christopher J.; James, David E.; Daly, Roger J. [Reprint Author]  
CS Cancer Research Program, Garvan Institute of Medical Research, 384  
Victoria St, Sydney, NSW, 2010, Australia  
r.daly@garvan.org.au  
SO EMBO (European Molecular Biology Organization) Journal, (11 February 2004)  
Vol. 23, No. 3, pp. 582-593. print.  
ISSN: 0261-4189 (ISSN print).  
DT Article  
LA English  
ED Entered STN: 6 May 2004  
Last Updated on STN: 6 May 2004

L2 ANSWER 16 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8  
AN 2004:114729 CAPLUS  
DN 140:214448  
TI Grb10: more than a simple adaptor protein  
AU Lim, Mei A.; Riedel, Heimo; Liu, Feng  
CS Department of Pharmacology, University of Texas Health Science Center at  
San Antonio, San Antonio, TX, 78229, USA  
SO Frontiers in Bioscience (2004), 9(1), 387-403  
CODEN: FRBIF6; ISSN: 1093-4715  
URL: <http://www.bioscience.org/2004/v9/af/1226/pdf.pdf>  
PB Frontiers in Bioscience  
DT Journal; General Review; (online computer file)  
LA English

RE.CNT 103 THERE ARE 103 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9  
AN 2004:114784 CAPLUS  
DN 140:160771  
TI GRB7 in intracellular signaling and its role in cell regulation  
AU Shen, Tang-Long; Guan, Jun-Lin  
CS Department of Molecular Medicine, Cornell University, Ithaca, NY, 14853,  
USA  
SO Frontiers in Bioscience (2004), 9(1), 192-200  
CODEN: FRBIF6; ISSN: 1093-4715  
URL: <http://www.bioscience.org/2004/v9/af/1229/pdf.pdf>  
PB Frontiers in Bioscience  
DT Journal; General Review; (online computer file)  
LA English

RE.CNT 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 18 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2004:282607 BIOSIS  
DN PREV200400277875  
TI Increased adipose tissue expression of \*\*\*Grb14\*\*\* in several models  
of insulin resistance.  
AU Cariou, Bertrand; Capitaine, Nadege; Le Marcis, Veronique; Vega, Nathalie;  
Berezziat, Veronique; Kergoat, Micheline; Laville, Martine; Girard, Jean;  
Vidal, Hubert; Burnol, Anne- Francoise [Reprint Author]  
CS CNRSUMR 8104INSERM,U567,Inst Cochin,Dept Endocrinol, Univ Paris 05,  
F-75674, Paris, France  
burnol@cochin.inserm.fr  
SO FASEB Journal, (April 2004) Vol. 18, No. 6, pp. NIL\_0336-NIL\_0356. print.  
ISSN: 0892-6638 (ISSN print).  
DT Article  
LA English  
ED Entered STN: 9 Jun 2004  
Last Updated on STN: 9 Jun 2004

L2 ANSWER 19 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 2004:415366 SCISEARCH  
GA The Genuine Article (R) Number: 816KM  
TI Increased adipose tissue expression of \*\*\*Grb14\*\*\* in several models  
of insulin resistance  
AU Cariou B; Capitaine N; Le Marcis V; Vega N; Berezziat V; Kergoat M; Laville  
M; Girard J; Vidal H; Burnol A F (Reprint)  
CS Univ Paris 05, CNRS, UMR 8104, INSERM, U567, Inst Cochin, Dept Endocrinol,  
F-75674 Paris, France (Reprint); Fac Med R Laennec, Ctr Rech & Nutr  
Humaine Lyon, Lyon, France; Hop Edouard Herriot, Serv Endocrinol Diabetol  
& Nutr, Lyon, France  
CYA France  
SO FASEB JOURNAL, (APR 2004) Vol. 18, No. 6.  
Publisher: FEDERATION AMER SOC EXP BIOL, 9650 ROCKVILLE PIKE, BETHESDA, MD  
20814-3998 USA.  
ISSN: 0892-6638.  
DT Article; Journal  
LA English  
REC Reference Count: 36  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L2 ANSWER 20 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and  
Learning Company; All Rights Reserved on STN  
AN 2003:43622 DISSABS Order Number: AAI3075524  
TI Structural and functional analysis of the BPS and SH2 domains of Grb10  
AU Stein, Evan Gary [Ph.D.]; Hubbard, Stevan R. [advisor]  
CS New York University (0146)  
SO Dissertation Abstracts International, (2003) Vol. 63, No. 12B, p. 5687.  
Order No.: AAI3075524. 91 pages.  
ISBN: 0-493-95827-4.  
DT Dissertation  
FS DAI  
LA English

L2 ANSWER 21 OF 156 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 10  
AN 2004-01504 BIOTECHDS  
TI Screening for drugs using altered expression of specified genes in  
frontal lobe or hippocampus of depression model animal, and diagnosis of



depression;  
animal model and biochip for use in drug screening and disease therapy

PA RIKAGAKU KENKYUSHO  
PI JP 2003274949 30 Sep 2003  
AI JP 2002-81502 22 Mar 2002  
PRAI JP 2002-81502 22 Mar 2002; JP 2002-81502 22 Mar 2002  
DT Patent  
LA Japanese  
OS WPI: 2003-822458 [77]

L2 ANSWER 22 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 11  
AN 10399185 IFIPAT;IFIUDB;IFICDB  
TI DIAGNOSIS OF DISEASES ASSOCIATED WITH THE IMMUNE SYSTEM BY DETERMINING  
CYTOSINE METHYLATION  
IN Berlin Kurt (DE); Olek Alexander (DE); Piepenbrock Christian (DE)  
PA Unassigned Or Assigned To Individual (68000)  
PI US 2003143606 A1 20030731  
AI US 2002-311455 20021216  
WO 2001-EP7537 20010702  
20021216 PCT 371 date  
20021216 PCT 102(e) date  
PRAI DE 2000-10032529 20000630  
DE 2000-10043826 20000901  
FI US 2003143606 20030731  
DT Utility; Patent Application - First Publication  
FS CHEMICAL  
APPLICATION  
CLMN 31

L2 ANSWER 23 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 12  
AN 10385219 IFIPAT;IFIUDB;IFICDB  
TI GDU, A NOVEL SIGNALLING PROTEIN  
IN Daly Roger John (AU); Sutherland Robert Lyndsay (AU)  
PA Unassigned Or Assigned To Individual (68000)  
PI US 2003129639 A1 20030710  
AI US 2002-323001 20021218  
RLI WO 1996-AU258 19960502 Section 371 PCT Filing UNKNOWN  
US 1998-945771 19980422 DIVISION 6465623  
US 2002-242332 20020911 DIVISION  
PRAI AU 1995-2742 19950502  
FI US 2003129639 20030710  
US 6465623  
DT Utility; Patent Application - First Publication  
FS CHEMICAL  
APPLICATION  
CLMN 9  
GI 3 Figure(s).

FIG. 1 shows a schematic representation of **\*\*\*Grb14\*\*\*** structure with a restriction map for the **\*\*\*Grb14\*\*\*** cDNA and the cDNA clones used to derive the **\*\*\*Grb14\*\*\*** sequence aligned underneath. The initial clone isolated by CORT screening was designated clone 1. Two other clones (1-1 and 1-2) were isolated from the 184 cell line library by screening using clone 1 as a probe. The **\*\*\*Grb14\*\*\*** cDNA sequence was completed using two clones L5 and L6, isolated from a human liver cDNA library. Abbreviations are as follows: A; Apa I; Av; Avr II, X; Xho I; E; Eco RI. The numbers refer to distance in bp.

FIG. 2 shows the nucleotide and amino acid sequence of **\*\*\*Grb14\*\*\***. The PH domain is underlined and the SH2 domain indicated by bold type. The translation termination codon is shown by an asterisk in the amino acid sequence. Numbers refer to distances in bp.

FIG. 3 shows the sequence homology between **\*\*\*Grb14\*\*\***, Grb7, Grb10 and F10E9.6. As alignment of the amino acid sequences of **\*\*\*Grb14\*\*\***, mouse Grb7, mouse Grb10 and C. elegans F10E9.6 was obtained using the computer programs Clustal W and SeqVu. Identical residues are boxed. A highly conserved proline-rich motif is indicated by the dotted underline, the PH domain by the broken underline and the SH2 domain by the bold underline. Only the central region of F10E9.6 exhibiting homology with the Grb7 family is shown. Amino acid residues for each protein are numbered (from the initiation methionine) on the right.

L2 ANSWER 24 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 13  
AN 10360583 IFIPAT;IFIUDB;IFICDB  
TI METHODS AND COMPOSITIONS FOR INHIBITING GRB7; ADMINISTERING A  
NON-PHOSPHORYLATED TRIPEPTIDES  
IN Krag David N; Oligino Lyn; Pero Stephanie C  
PA Unassigned Or Assigned To Individual (68000)

PI US 2003105000 A1 20030605  
AI US 2001-13815 20011105  
PRAI US 2000-245755P 20001103 (Provisional)  
FI US 2003105000 20030605  
DT Utility; Patent Application - First Publication  
FS CHEMICAL  
APPLICATION  
CLMN 93  
GI 16 Figure(s).

FIG. 1 is a histogram showing the binding of Grb7 binding peptides (G7BP) to the SH2 domain of human Grb7 by ELISA.  
FIG. 2 is a histogram showing the binding of a control phage clone to the SH2 domain of Grb2 but not to the SH2 domain of Grb7.  
FIG. 3 is a histogram showing the effect of mutation on a G7BP-4 phage clone on its ability to bind to the SH2 domain of Grb7.  
FIG. 4 is a histogram showing the binding specificity of seven Grb7 binding peptides to the SH2 domains of Grb7, Grb7 beta D5beta D6, \*\*\*Grb14\*\*\*, full length Grb2, and BSA using a phage ELISA.  
FIG. 5A is a graph showing the inhibition of G7-18 peptide-phage binding to Grb7-SH2 with the free synthetic peptides G7-18, G718NATE and G7-8.  
FIG. 5B is a graph showing the inhibition of G7-8NA peptidephage binding to Grb7-SH2 with the free synthetic peptides G7-8, G7-8NA and G7-8NATE.  
FIG. 6A is a graph showing G7-18NATE inhibits the association of Grb7 with the ErbB family of receptors, as detected by antiphosphotyrosine.  
FIG. 6B is a densitometric analysis of autoradiographs using the Biorad Fluor-S Multimager with Quantity One 4.2.1 software, showing G7-18NATE inhibits the association of Grb7, not Grb2, with the ErbB family in a dose-dependent manner.  
FIG. 7A is a graph showing that G7-18NATE inhibits the association of Grb7 with ErbB3 specifically in a dose-dependent manner, as detected by anti-ErbB3 FIG. 7B is a densitometric analysis of autoradiographs using the Biorad Fluor-S Multimager with Quantity One 4.2.1 software showing that G7-18NATE inhibits the association of Grb7 with ErbB3 in a dose-dependent manner.  
FIG. 8A is a graph showing that G7-18NATE inhibits the association of Grb7 with ErbB2 specifically in a dose-dependent manner, as detected by anti-ErbB2.  
FIG. 8B is a densitometric analysis of autoradiographs using the Biorad Fluor-S Multimager with Quantity One 4.2.1 software showing that G7-18NATE inhibits the association of Grb7 with ErbB2 in a dose-dependent manner.  
FIG. 9A is one possible chemical structure for G7BP-4NATE (SEQ ID NO:50). Other thioether linkages are illustrated in FIGS. 9B, 9C, 9D and 9E, and it is to be understood that any of these linkages can be used in the formation of G7BP-4NATE.  
FIG. 9B is the structure of a thioether containing peptide (G1TE). This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.  
FIG. 9C is another possible structure for the thioether containing peptide GI TE. This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.  
FIG. 9D is another possible structure for the thioether containing peptide G1TE. This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.  
FIG. 9E is another possible structure for the thioether containing peptide GI TE. This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.

L2 ANSWER 25 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 14  
AN 10300425 IFIPAT;IFIUDB;IFICDB  
TI GDU, A NOVEL SIGNALLING PROTEIN; NUCLEOTIDE SEQUENCES CODING POLYPEPTIDE FOR USE IN THE DIAGNOSIS, TREATMENT AND PREVENTION OF CANCER  
IN Daly Roger John (AU); Sutherland Robert Lyndsay (AU)  
PA Unassigned Or Assigned To Individual (68000)  
PI US 2003044834 A1 20030306  
AI US 2002-242332 20020911  
RLI WO 1996-AU258 19960502 Section 371 PCT Filing UNKNOWN  
US 1998-945771 19980422 DIVISION 6465623  
PRAI AU 1995-2742 19950502  
FI US 2003044834 20030306  
US 6465623  
DT Utility; Patent Application - First Publication

FS CHEMICAL  
APPLICATION

CLMN 9

GI 3 Figure(s).

FIG. 1 shows a schematic representation of \*\*\*Grb14\*\*\* structure with a restriction map for the \*\*\*Grb14\*\*\* cDNA and the cDNA clones used to derive the \*\*\*Grb14\*\*\* sequence aligned underneath. The initial clone isolated by CORT screening was designated clone 1. Two other clones (1-1 and 1-2) were isolated from the 184 cell line library by screening using clone 1 as a probe. The \*\*\*Grb14\*\*\* cDNA sequence was completed using two clones L5 and L6, isolated from a human liver cDNA library. Abbreviations are as follows: A; Apa I; Av; Avr II, X; Xho I; E; Eco RI. The numbers refer to distance in bp.

FIG. 2 shows the nucleotide and amino acid sequence of \*\*\*Grb14\*\*\*. The PH domain is underlined and the SH2 domain indicated by bold type. The translation termination codon is shown by an asterisk in the amino acid sequence. Numbers refer to distances in bp.

FIG. 3 shows the sequence homology between \*\*\*Grb14\*\*\*, Grb7, Grb10 and F10E9.6. As alignment of the amino acid sequences of \*\*\*Grb14\*\*\*, mouse Grb7, mouse Grb10 and C. elegans F10E9.6 was obtained using the computer programs Clustal W and SeqVu. Identical residues are boxed. A highly conserved proline-rich motif is indicated by the dotted underline, the PH domain by the broken underline and the SH2 domain by the bold underline. Only the central region of F10E9.6 exhibiting homology with the Grb7 family is shown. Amino acid residues for each protein are numbered (from the initiation methionine) on the right.

L2 ANSWER 26 OF 156 USPATFULL on STN

AN 2003:330145 USPATFULL

TI Skin cell biomarkers and methods for identifying biomarkers using nucleic acid microarrays

IN Dooley, Thomas P., Vestavia Hills, AL, UNITED STATES  
Curto, Ernest V., Huntsville, AL, UNITED STATES  
Davis, Richard L., JR., Homewood, AL, UNITED STATES

PI US 2003232356 A1 20031218

AI US 2003-361006 A1 20030210 (10)

PRAI US 2002-354519P 20020208 (60)

DT Utility

FS APPLICATION

LN.CNT 1897

INCL INCLM: 435/006.000

INCLS: 702/020.000

NCL NCLM: 435/006.000

NCLS: 702/020.000

IC [7]

ICM: C12Q001-68

ICS: G06F019-00; G01N033-48; G01N033-50

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 27 OF 156 USPATFULL on STN

AN 2003:225702 USPATFULL

TI Polynucleotide encoding a novel pleckstrin homology domain and proline rich domain containing adapter protein, PMN29

IN Finger, Joshua N., San Marcos, CA, UNITED STATES  
Perez-Villar, Juan J., Mercerville, NJ, UNITED STATES  
Rajashekar, Reddy, Langhorne, PA, UNITED STATES  
Yang, Guchen, Morrisville, PA, UNITED STATES  
Kiener, Peter A., Doylestown, PA, UNITED STATES

PI US 2003157514 A1 20030821

AI US 2002-234816 A1 20020904 (10)

PRAI US 2001-317063P 20010904 (60)

DT Utility

FS APPLICATION

LN.CNT 13865

INCL INCLM: 435/006.000

INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;  
435/007.200

NCL NCLM: 435/006.000

NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;  
435/007.200

IC [7]

ICM: C12Q001-68

ICS: G01N033-53; G01N033-567; C07H021-04; C12P021-02; C12N005-06;  
C07K014-47

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 28 OF 156 USPATFULL on STN  
AN 2003:37578 USPATFULL  
TI Specimen-linked G protein coupled receptor database  
IN Muraca, Patrick J., Pittsfield, MA, UNITED STATES  
PI US 2003027223 A1 20030206  
AI US 2002-184694 A1 20020628 (10)  
PRAI US 2001-302316P 20010629 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3618  
INCL INCLM: 435/007.210  
INCLS: 702/019.000  
NCL NCLM: 435/007.210  
NCLS: 702/019.000  
IC [7]  
ICM: G01N033-567  
ICS: G06F019-00; G01N033-48; G01N033-50  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 29 OF 156 USPATFULL on STN  
AN 2003:222015 USPATFULL  
TI Compositions for the detection of blood cell and immunological response  
gene expression  
IN Cocks, Benjamin G., Sunnyvale, CA, United States  
Stuart, Susan G., Montara, CA, United States  
Seilhamer, Jeffrey J., Los Altos Hills, CA, United States  
PA Incyte Corporation, Palo Alto, CA, United States (U.S. corporation)  
PI US 6607879 B1 20030819  
AI US 1998-23655 19980209 (9)  
DT Utility  
FS GRANTED  
LN.CNT 3719  
INCL INCLM: 435/006.000  
INCLS: 435/069.100; 536/023.100; 536/024.100; 536/024.300; 536/024.310;  
536/024.320; 536/024.330  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 536/023.100; 536/024.100; 536/024.300; 536/024.310;  
536/024.320; 536/024.330  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-00  
EXF 435/6; 435/69.1; 536/22.1; 536/23.1; 536/24.1; 536/24.3-24.33  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 30 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 15  
AN 2003:254017 BIOSIS  
DN PREV200300254017  
TI Structural basis for dimerization of the Grb10 src homology 2 domain.  
Implications for ligand specificity.  
AU Stein, Evan G.; Ghirlando, Rodolfo; Hubbard, Stevan R. [Reprint Author]  
CS Skirball Institute of Biomolecular Medicine, New York University School of  
Medicine, 540 First Ave., New York, NY, 10016, USA  
hubbard@saturn.med.nyu.edu  
SO Journal of Biological Chemistry, (April 11 2003) Vol. 278, No. 15, pp.  
13257-13264. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 28 May 2003  
Last Updated on STN: 28 May 2003

L2 ANSWER 31 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 16  
AN 2003:355616 BIOSIS  
DN PREV200300355616  
TI NIK is a component of the EGF/hereregulin receptor signaling complexes.  
AU Chen, Danying; Xu, Liang-Guo; Chen, Lei; Li, Lixia; Zhai, Zhonghe; Shu,  
Hong-Bing [Reprint Author]  
CS Department of Immunology, National Jewish Medical and Research Center,  
University of Colorado Health Sciences Center, 1400 Jackson Street, K516c,  
Denver, CO, 80206, USA  
shuh@njc.org  
SO Oncogene, (10 July 2003) Vol. 22, No. 28, pp. 4348-4355. print.  
ISSN: 0950-9232 (ISSN print).  
DT Article

LA English  
ED Entered STN: 6 Aug 2003  
Last Updated on STN: 6 Aug 2003

L2 ANSWER 32 OF 156 LIFESCI COPYRIGHT 2004 CSA on STN  
AN 2003:53872 LIFESCI  
TI The Grb10/Nedd4 Complex Regulates Ligand-Induced Ubiquitination and  
Stability of the Insulin-Like Growth Factor I Receptor  
AU Vecchione, A.; Marchese, A.; Henry, P.; Rotin, D.; Morrione, A.\*  
CS Department of Urology and Kimmel Cancer Center, Thomas Jefferson  
University, BLSB Room 631, 233 South 10th St., Philadelphia, PA 19107;  
E-mail: Andrea.Morrione@mail.tju.edu  
SO Molecular and Cellular Biology [Mol. Cell. Biol.], (20030500) vol. 23, no.  
9, pp. 3363-3372.  
ISSN: 0270-7306.  
DT Journal  
FS G  
LA English  
SL English

L2 ANSWER 33 OF 156 DRUGU COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2004-08282 DRUGU P B  
TI Imatinib induces mitochondria-dependent apoptosis of the Bcr-Abl-positive  
K562 cell line and its differentiation toward the erythroid lineage.  
AU Jacquell A; Herrant M; Legros L; Belhacene N; Luciano F; Pages G; Hofman  
P; Auberger P  
LO Nice, Fr.  
SO FASEB J. (17, No. 14, 2160-62, 2003) 3 Fig.  
CODEN: FAJOEC ISSN: 0892-6638  
AV INSERM U526, Physiopathologie de la Survie et de la Mort Cellulaires et  
Infections Virales Equipe Labellisee par la LNC, 06107 Nice-Cedex 2,  
France. (P.A.). (e-mail: auberger@unice.fr).  
LA English  
DT Journal  
FA AB; LA; CT  
FS Literature

L2 ANSWER 34 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2003:476188 BIOSIS  
DN PREV200300476188  
TI Characterization of a novel gene (HGP1) potentially involved in  
osteosarcoma progression.  
AU Eppert, Kolja [Reprint Author]; Aneliunas, Vicky [Reprint Author]; Wunder,  
Jay S. [Reprint Author]; Andrulis, Irene L. [Reprint Author]  
CS Fred A. Litwin Centre for Cancer Genetics, Samuel Lunenfeld Research  
Institute, Mount Sinai Hospital, Toronto, ON, Canada  
SO Proceedings of the American Association for Cancer Research Annual  
Meeting, (July 2003) Vol. 44, pp. 1041-1042. print.  
Meeting Info.: 94th Annual Meeting of the American Association for Cancer  
Research. Washington, DC, USA. July 11-14, 2003.  
ISSN: 0197-016X.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 15 Oct 2003  
Last Updated on STN: 15 Oct 2003

L2 ANSWER 35 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 17  
AN 2004:49749 BIOSIS  
DN PREV200400053388  
TI Using gene expression profiling to identify the molecular basis of the  
synergistic actions of hepatocyte growth factor and vascular endothelial  
growth factor in human endothelial cells.  
AU Gerritsen, Mary E. [Reprint Author]; Tomlinson, James E.; Zlot, Constance;  
Ziman, Michael; Hwang, Stuart  
CS 541 Parrott Drive, San Mateo, CA, 94402, USA  
meg570@comcast.net  
SO British Journal of Pharmacology, (October 2003) Vol. 140, No. 4, pp.  
595-610. print.  
ISSN: 0007-1188 (ISSN print).  
DT Article  
LA English  
ED Entered STN: 21 Jan 2004  
Last Updated on STN: 21 Jan 2004

L2 ANSWER 36 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 18  
AN 2003:451765 BIOSIS  
DN PREV200300451765  
TI Carcinogen mediated initiation of glial progenitors in the rat brain  
results in marked dependency of proliferation and differentiation by  
insulin and FGF-2.  
AU Kokkinakis, Demetrius Michael [Reprint Author]; Yang, Shuting [Reprint  
Author]  
CS University of Pittsburgh, Pittsburgh, PA, USA  
SO Proceedings of the American Association for Cancer Research Annual  
Meeting, (July 2003) Vol. 44, pp. 482. print.  
Meeting Info.: 94th Annual Meeting of the American Association for Cancer  
Research. Washington, DC, USA. July 11-14, 2003.  
ISSN: 0197-016X.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 1 Oct 2003  
Last Updated on STN: 1 Oct 2003

L2 ANSWER 37 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 19  
AN 2003:587917 BIOSIS  
DN PREV200300570714  
TI The PIR domain of \*\*\*Grb14\*\*\* is an intrinsically unstructured  
protein: Implication in insulin signaling.  
AU Moncoq, Karine; Broutin, Isabelle [Reprint Author]; Larue, Valery;  
Perdereau, Dominique; Cailliau, Katia; Browaeys-Poly, Edith; Burnol,  
Anne-Francoise; Ducruix, Arnaud  
CS Laboratoire de Cristallographie et RMN Biologiques, Faculte de Pharmacie  
Paris 5, 4 avenue de l'Observatoire, 75270, Paris Cedex, 06, France  
broutin@pharmacie.univ-paris5.fr  
SO FEBS Letters, (20 November 2003) Vol. 554, No. 3, pp. 240-246. print.  
CODEN: FEBLAL. ISSN: 0014-5793.  
DT Article  
LA English  
ED Entered STN: 10 Dec 2003  
Last Updated on STN: 10 Dec 2003

L2 ANSWER 38 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 20  
AN 2003:390017 BIOSIS  
DN PREV200300390017  
TI Inhibition of FGF receptor signalling in Xenopus oocytes: Differential  
effect of Grb7, Grb10 and \*\*\*Grb14\*\*\*.  
AU Cailliau, Katia; Le Marcis, Veronique; Bereziat, Veronique; Perdereau,  
Dominique; Cariou, Bertrand; Vilain, Jean Pierre; Burnol, Anne-Francoise;  
Browaeys-Poly, Edith [Reprint Author]  
CS Laboratoire de Biologie du Developpement, Universite des Sciences;  
Technologies de Lille, UPRES UA 1033, IFR 118, Batiment SN3, Villeneuve  
d'Ascq Cedex, France  
edith.browaeys@univ-lille1.fr  
SO FEBS Letters, (31 July 2003) Vol. 548, No. 1-3, pp. 43-48. print.  
CODEN: FEBLAL. ISSN: 0014-5793.  
DT Article  
LA English  
ED Entered STN: 27 Aug 2003  
Last Updated on STN: 27 Aug 2003

L2 ANSWER 39 OF 156 DISSABS COPYRIGHT (C) 2004 Proquest Information and  
Learning Company; All Rights Reserved on STN  
AN 2004:5360 DISSABS Order Number: AAIMQ78889  
TI Mitochondrial membrane binding and protein complexing of the  
anti-apoptotic adaptor protein Grb10  
AU Hassard, Jennifer L. [M.Sc.]; Thomas, David [advisor]  
CS McGill University (Canada) (0781)  
SO Masters Abstracts International, (2002) Vol. 41, No. 6, p. 1674. Order  
No.: AAIMQ78889. 75 pages.  
ISBN: 0-612-78889-X.  
DT Dissertation  
FS MAI  
LA English  
ED Entered STN: 20040107  
Last Updated on STN: 20040107

L2 ANSWER 40 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 21  
 AN 2002:285562 CAPLUS  
 DN 137:61578  
 TI Expressed gene sets as markers for specific tumors  
 IN Ramaswamy, Sridhar; Golub, Todd B.; Tamayo, Pablo; Angelo, Michael  
 PA Whitehead Institute for Biomedical Research, USA; Dana-Farber Cancer  
 Institute, Inc.  
 SO PCT Int. Appl., 715 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002024956	A2	20020328	WO 2001-XB29287	20010919
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	WO 2002024956	A2	20020328	WO 2001-US29287	20010919
	WO 2002024956	C1	20030306		
	WO 2002024956	A3	20030626		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2000-233534P	P	20000919		
	US 2001-278749P	P	20010326		
	WO 2001-US29287	W	20010919		

L2 ANSWER 41 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 22  
 AN 10142689 IFIPAT;IFIUDB;IFICDB  
 TI GDU, A NOVEL SIGNALLING PROTEIN; IT MAY PROVIDE A TARGET IN DISEASES OR CONDITIONS IN WHICH PLATELET DERIVED GROWTH FACTOR RECEPTOR (PDGFR) PLAYS A REGULATORY ROLE E.G. WOUND HEALING, FIBROTIC CONDITIONS, ATHEROSCLEROSIS  
 IN DALY ROGER JOHN (AU); SUTHERLAND ROBERT LINDSAY (AU)  
 PA Unassigned or Assigned To Individual (68000)  
 PPA Garvan Institute of Medical Research AU (Probable)  
 PI US 2002086328 A1 20020704  
 AI US 1998-945771 19980422  
 WO 1996-US258 19960502  
 FI US 2002086328 20020704  
 US 6465623 20021015  
 DT Utility; Patent Application - First Publication  
 FS CHEMICAL  
 APPLICATION  
 CLMN 9  
 GI 3 Figure(s).

FIG. 1 shows a schematic representation of \*\*\*Grb14\*\*\* structure with a restriction map for the \*\*\*Grb14\*\*\* cDNA and the cDNA clones used to derive the \*\*\*Grb14\*\*\* sequence aligned underneath. The initial clone isolated by CORT screening was designated clone 1. Two other clones (1-1 and 1-2) were isolated from the 184 cell line library by screening using clone 1 as a probe. The \*\*\*Grb14\*\*\* cDNA sequence was completed using two clones L5 and L6, isolated from a human liver cDNA library. Abbreviations are as follows: A; Apa I; Av; Avr II, X; Xho I; E; Eco RI. The numbers refer to distance in bp.

FIG. 2 shows the nucleotide and amino acid sequence of \*\*\*Grb14\*\*\*. The PH domain is underlined and the SH2 domain indicated by bold type. The translation termination codon is shown by an asterisk in the amino acid sequence. Numbers refer to distances in bp.

FIG. 3 shows the sequence homology between \*\*\*Grb14\*\*\*, Grb7, Grb10 and F10E9.6. As alignment of the amino acid sequences of \*\*\*Grb14\*\*\*, mouse Grb7, mouse Grb10 and C. elegans F10E9.6 was obtained using the computer programs Clustal W and SeqVu. Identical residues are boxed. A

highly conserved proline-rich motif is indicated by the dotted underline, the PH domain by the broken underline and the SH2 domain by the bold underline. Only the central region of F10E9.6 exhibiting homology with the Grb7 family is shown. Amino acid residues for each protein are numbered (from the initiation methionine) on the right.

L2 ANSWER 42 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 23  
 AN 10094016 IFIPAT;IFIUDB;IFICDB  
 TI POTENTIAL EFFECTOR FOR THE GRB7 FAMILY OF SIGNALLING PROTEINS; NUCLEOTIDE SEQUENCES CODING SIGNAL TRANSDUCTION PLYPEPTIDE; FOR USE IN THE DIAGNOSIS AND TREATMENT OF CANCERS  
 IN DALY ROGER JOHN (AU); SUTHERLAND ROBERT L (AU)  
 PA Unassigned Or Assigned To Individual (68000)  
 PI US 2002037582 A1 20020328  
 AI US 2000-509196 20000323  
 WO 1998-AU795 19980923  
 PRAI AU 1997-9388 19970923  
 FI US 2002037582 20020328  
 DT Utility; Patent Application - First Publication  
 FS CHEMICAL APPLICATION  
 CLMN 15  
 GI 2 Figure(s).

FIG. 1 provides the nucleotide and amino acid (single letter code) sequence of 2.2412. Numbers refer to distances in base pairs. Ankyrin-type repeat sequences are underlined. An additional repeat sequence is indicated by italics. The stop codon is represented by all asterisk. The original cDNA clone 2. 2412 isolated by the two hybrid screen spans nucleotides 6942664 of this sequence.

FIG. 2 provides a map of the 2.2412-binding region on \*\*\*Grb14\*\*\*. A. Structure of the deletion constructs used in the analysis. Gal4 DNA-BD fusion constructs encoding full length \*\*\*Grb14\*\*\* (FL), the Nterminal (N), central region (C) and N-terminal+central region (N+C) were generated in the vector pAS2.1. B. Results of betagalactosidase activity assays following transformation of the above plasmids into yeast strain Y190 together with the original 2.2412 cDNA clone in pACT-2.

L2 ANSWER 43 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:10730 CAPLUS  
 DN 136:49326  
 TI Diagnosis of diseases associated with the immune system using oligomer probes to detect cytosine methylation state  
 IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt  
 PA Epigenomics A.-G., Germany  
 SO PCT Int. Appl., 32 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 68

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000928	A2	20020103	WO 2001-EP7537	20010702
WO 2002000928	A3	20020801		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10032529	A1	20020207	DE 2000-10032529	20000630
EP 1274865	A2	20030115	EP 2001-953936	20010406
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003531589	T2	20031028	JP 2001-575634	20010406
EP 1360319	A2	20031112	EP 2001-955278	20010406
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
DE 20121961	U1	20040129	DE 2001-20121961	20010629
DE 20121971	U1	20040205	DE 2001-20121971	20010629
DE 20121979	U1	20040205	DE 2001-20121979	20010629
EP 1294951	A2	20030326	EP 2001-967115	20010702
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			



DE	20121966	U1	20031224	DE	2001-20121966	20010702
DE	20121963	U1	20040129	DE	2001-20121963	20010702
DE	20121967	U1	20040129	DE	2001-20121967	20010702
DE	20121975	U1	20040219	DE	2001-20121975	20010702
DE	20121978	U1	20040219	DE	2001-20121978	20010702
US	2003143606	A1	20030731	US	2002-311455	20021216
US	2004067491	A1	20040408	US	2003-240454	20030311
US	2003162194	A1	20030828	US	2003-240452	20030414
JP	2004008217	A2	20040115	JP	2003-160375	20030605
US	2004023279	A1	20040205	US	2003-455212	20030605
PRAI	DE 2000-10032529	A	20000630			
	DE 2000-10043826	A	20000901			
	DE 2000-10019058	A	20000406			
	DE 2000-10019173	A	20000407			
	WO 2001-EP3969	W	20010406			
	WO 2001-EP4016	W	20010406			
	EP 2001-967115	A	20010702			
	WO 2001-EP7537	W	20010702			
	EP 2002-90203	A	20020605			

L2 ANSWER 44 OF 156 USPATFULL on STN  
AN 2002:315083 USPATFULL  
TI Nucleic acid sequences associated with baldness  
IN Pritchard, David, Seattle, WA, UNITED STATES  
Burmer, Glenna, Seattle, WA, UNITED STATES  
Brown, Joseph, Seattle, WA, UNITED STATES  
Demas, Vasiliki, Seattle, WA, UNITED STATES  
PI US 2002177566 A1 20021128  
AI US 2001-825096 A1 20010402 (9)  
PRAI US 2000-199745P 20000425 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3768  
INCL INCLM: 514/044.000  
INCLS: 435/006.000; 435/007.210; 424/070.100  
NCL NCLM: 514/044.000  
NCLS: 435/006.000; 435/007.210; 424/070.100  
IC [7]  
ICM: A61K048-00  
ICS: C12Q001-68; G01N033-567; A61K007-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 45 OF 156 USPATFULL on STN  
AN 2002:181561 USPATFULL  
TI Process for in vitro selection of high methol producing genotypes  
IN Khanuja, Suman Preet Singh, Lucknow, INDIA  
Shasany, Ajit Kumar, Lucknow, INDIA  
Dhawan, Sunita, Lucknow, INDIA  
Darokar, Mahendra Pandurang, Lucknow, INDIA  
Kumar, Tiruppadiripuliyur Ranganathan Santha, Lucknow, INDIA  
Saikia, Dharmendra, Lucknow, INDIA  
Naqui, Arif Ali, Lucknow, INDIA  
Kumar, Sushil, Lucknow, INDIA  
PA Council of Scientific&Industrial Reaearch, New Delhi, INDIA (non-U.S. corporation)  
PI US 6423541 B1 20020723  
AI US 2000-531768 20000321 (9)  
DT Utility  
FS GRANTED  
LN.CNT 741  
INCL INCLM: 435/420.000  
INCLS: 435/410.000; 435/421.000; 435/430.000; 435/430.100; 435/431.000  
NCL NCLM: 435/420.000  
NCLS: 435/410.000; 435/421.000; 435/430.000; 435/430.100; 435/431.000  
IC [7]  
ICM: C12N005-00  
EXF 435/410; 435/420; 435/421; 435/430; 435/430.1; 435/431  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 46 OF 156 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2002-547451 [58] WPIDS  
DNC C2002-155181  
TI Treatment or prophylaxis of a subject having a disorder characterized by abnormal interaction of Grb7 and a Grb7 ligand, involves administering to a non-phosphorylated peptide to a subject in need of the treatment.  
DC B04 D16

IN Krag, D N; OLIGINO, L; PERO, S C  
PA (UYVE-N) UNIV VERMONT & STATE AGRIC COLLEGE; (Krag-I) Krag D N; (OLIG-I)  
OLIGINO L; (PERO-I) PERO S C  
CYC 23  
PI WO 2002036142 A2 20020510 (200258)\* EN 95 A61K038-00  
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
W: AU CA JP  
AU 2002020265 A 20020515 (200258) A61K038-00  
US 2003105000 A1 20030605 (200339) A61K038-17  
ADT WO 2002036142 A2 WO 2001-US47400 20011105; AU 2002020265 A AU 2002-20265  
20011105; US 2003105000 A1 Provisional US 2000-245755P 20001103, US  
2001-13815 20011105  
FDT AU 2002020265 A Based on WO 2002036142  
PRAI US 2000-245755P 20001103; US 2001-13815 20011105  
IC ICM A61K038-00; A61K038-17

L2 ANSWER 47 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 24  
AN 2002:492206 BIOSIS  
DN PREV200200492206  
TI Association of Grb7 with phosphoinositides and its role in the regulation  
of cell migration.  
AU Shen, Tang-Long; Han, Dong Cho; Guan, Jun-Lin [Reprint author]  
CS Department of Molecular Medicine, Cornell University, Ithaca, NY, 14853,  
USA  
jg19@cornell.edu  
SO Journal of Biological Chemistry, (August 9, 2002) vol. 277, No. 32, pp.  
29069-29077. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 18 Sep 2002  
Last Updated on STN: 18 Sep 2002

L2 ANSWER 48 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 25  
AN 2002:292126 BIOSIS  
DN PREV200200292126  
TI Identification of novel non-phosphorylated ligands, which bind selectively  
to the SH2 domain of Grb7.  
AU Pero, Stephanie C.; Oligino, Lyn; Daly, Roger J.; Soden, Amy L.; Liu,  
Chen; Roller, Peter P.; Li, Peng; Krag, David N. [Reprint author]  
CS Department of Surgery, University of Vermont School of Medicine, Given  
Medical Building, Rm. E309, Burlington, VT, 05405, USA  
David.Krag@uvm.edu  
SO Journal of Biological Chemistry, (April 5, 2002) vol. 277, No. 14, pp.  
11918-11926. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 15 May 2002  
Last Updated on STN: 15 May 2002

L2 ANSWER 49 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:875636 CAPLUS  
DN 138:151170  
TI Comparative analysis of mutation frequency of coding and non coding short  
mononucleotide repeats in mismatch repair deficient colorectal cancers  
AU Duval, Alex; Reperant, Maryline; Hamelin, Richard  
CS INSERM U434, CEPH, Paris, Fr.  
SO Oncogene (2002), 21(52), 8062-8066  
CODEN: OCNES; ISSN: 0950-9232  
PB Nature Publishing Group  
DT Journal  
LA English

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 50 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 26  
AN 2002:529717 BIOSIS  
DN PREV200200529717  
TI The adapter protein ZIP binds \*\*\*Grb14\*\*\* and regulates its inhibitory  
action on insulin signaling by recruiting protein kinase Czeta.  
AU Cariou, Bertrand; Perdureau, Dominique; Cailliau, Katia; Browaeys-Poly,  
Edith; Bereziat, Veronique; Vasseur-Cognet, Mireille; Girard, Jean;

CS Burnol, Anne-Francoise [Reprint author]  
Departement d'Endocrinologie, Institut Cochin, CNRS-INSERM-Universite Rene  
Descartes, 24 Rue du Faubourg Saint-Jacques, 75674, Paris, France  
burnol@cochin.inserm.fr  
SO Molecular and Cellular Biology, (October, 2002) Vol. 22, No. 20, pp.  
6959-6970. print.  
CODEN: MCEBD4. ISSN: 0270-7306.  
DT Article  
LA English  
ED Entered STN: 16 Oct 2002  
Last Updated on STN: 16 Oct 2002

L2 ANSWER 51 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 27  
AN 2002:207358 BIOSIS  
DN PREV200200207358  
TI Inhibition of insulin receptor catalytic activity by the molecular adapter  
\*\*\*Grb14\*\*\*  
AU Bereziat, Veronique; Kasus-Jacobi, Anne; Perdereau, Dominique; Cariou,  
Bertrand; Girard, Jean; Burnol, Anne-Francoise [Reprint author]  
CS Endocrinologie et Metabolisme, CNRS UPR 1524, Institut Cochin de Genetique  
Moleculaire, 24 rue du Faubourg Saint-Jacques, 75674, Paris Cedex, 14,  
France  
burnol@cochin.inserm.fr  
SO Journal of Biological Chemistry, (February 15, 2002) Vol. 277, No. 7, pp.  
4845-4852. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 20 Mar 2002  
Last Updated on STN: 20 Mar 2002

L2 ANSWER 52 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:3572 CAPLUS  
DN 138:382650  
TI Ontogeny and the possible function of a novel epidermal growth factor-like  
repeat domain-containing protein, NELL2, in the rat brain  
AU Kim, Hyun; Ha, Chang Man; Choi, Jungil; Choi, Eun Jung; Jeon, Jongrye;  
Kim, Changmee; Park, Sang Kyu; Kang, Sang Soo; Kim, Kyungjin; Lee, Byung  
Ju  
CS Department of Anatomy, Brain Korea 21 Biomedical Sciences, Korea  
University College of Medicine, Seoul, S. Korea  
SO Journal of Neurochemistry (2002), 83(6), 1389-1400  
CODEN: JONRA9; ISSN: 0022-3042  
PB Blackwell Science Ltd.  
DT Journal  
LA English  
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 53 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2002:396091 BIOSIS  
DN PREV200200396091  
TI Gene expression profiling of endometrial carcinomas: Identification of  
molecular biomarkers.  
AU Yap, Oi wah Stephanie [Reprint author]; Zhu, Shirley [Reprint author]; van  
de Rijn, Matt [Reprint author]; Longacre, Teri [Reprint author]; Teng,  
Nelson [Reprint author]; Husain, Amreen [Reprint author]  
CS Stanford University Medical Center, Stanford, CA, USA  
SO Proceedings of the American Association for Cancer Research Annual  
Meeting, (March, 2002) Vol. 43, pp. 746. print.  
Meeting Info.: 93rd Annual Meeting of the American Association for Cancer  
Research. San Francisco, California, USA. April 06-10, 2002.  
ISSN: 0197-016X.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 24 Jul 2002  
Last Updated on STN: 24 Jul 2002

L2 ANSWER 54 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 2002:207936 SCISEARCH  
GA The Genuine Article (R) Number: 524UV  
TI Comparison of gene expression in old versus young rat hippocampus by cDNA  
array  
AU Cho K S; Choi J G; Ha C M; Son Y J; Choi W S; Lee B J (Reprint)

CS Univ Ulsan, Dept Biol Sci, Ulsan 680749, South Korea (Reprint); Gyeongsang  
 Natl Univ, Coll Med, Dept Anat, Chinju 660280, South Korea  
 CYA South Korea  
 SO NEUROREPORT, (4 MAR 2002) Vol. 13, No. 3, pp. 285-289.  
 Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA  
 19106-3621 USA.  
 ISSN: 0959-4965.  
 DT Article; Journal  
 LA English  
 REC Reference Count: 26  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L2 ANSWER 55 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 28  
 AN 2003:124261 BIOSIS  
 DN PREV200300124261  
 TI Assignment of backbone 1H, 13C, and 15N resonances of the SH2 domain of  
 human \*\*\*Grb14\*\*\*  
 AU Scharf, Paul J.; Lyons, Barbara A. [Reprint Author]  
 CS Department of Biochemistry, College of Medicine, University of Vermont,  
 Burlington, VT, 05405, USA  
 blyons@zoo.uvm.edu  
 SO Journal of Biomolecular NMR, (November 2002) Vol. 24, No. 3, pp. 275-276.  
 print.  
 ISSN: 0925-2738 (ISSN print).  
 DT Article  
 LA English  
 ED Entered STN: 5 Mar 2003  
 Last Updated on STN: 5 Mar 2003

L2 ANSWER 56 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
 AN 2002:524711 SCISEARCH  
 GA The Genuine Article (R) Number: 557XP  
 TI The atypical PKC-Interacting protein ZIP binds \*\*\*Grb14\*\*\* and  
 potentiates its inhibitory action on insulin signaling  
 AU Cariou B (Reprint); Perdereau D; Cailliau K; Browaeys-Poly E; Bereziat V;  
 Girard J; Burnol A F  
 SO DIABETES, (JUN 2002) Vol. 51, supp. [2], pp. A56-A56. MA 228.  
 Publisher: AMER DIABETES ASSOC, 1660 DUKE ST, ALEXANDRIA, VA 22314 USA.  
 ISSN: 0012-1797.  
 DT Conference; Journal  
 LA English  
 REC Reference Count: 0

L2 ANSWER 57 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 2003:155451 BIOSIS  
 DN PREV200300155451  
 TI Proteomic Study on the Retinas of RD, RDS and C3B Mice as Well as  
 Reconfirming of the Differentially Expressed Proteins by Using RT-PCT.  
 AU Li, D. [Reprint Author]; Zhang, Q. J.  
 CS Ocular Genetics and Molec Bio, Zhonghsan Ophthalmic Ctr, Guanzhou, China  
 SO ARVO Annual Meeting Abstract Search and Program Planner, (2002) Vol. 2002,  
 pp. Abstract No. 3629. cd-rom.  
 Meeting Info.: Annual Meeting of the Association For Research in Vision  
 and Ophthalmology. Fort Lauderdale, Florida, USA. May 05-10, 2002.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 26 Mar 2003  
 Last Updated on STN: 26 Mar 2003

L2 ANSWER 58 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:798473 CAPLUS  
 DN 135:340282  
 TI Nucleic acid sequences associated with baldness and uses in detecting the  
 likelihood of baldness and for gene therapy  
 IN Pritchard, David; Burmer, Glenna; Brown, Joseph; Demas, Vasiliki  
 PA Lifespan Biosciences, Inc., USA  
 SO PCT Int. Appl., 87 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001081628	A1	20011101	wo 2001-us12184	20010413

WO 2001081628 C2 20021227  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,  
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,  
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002177566 A1 20021128 US 2001-825096 20010402

PRAI US 2000-199745P P 20000425

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 59 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 29

AN 2001:390236 BIOSIS

DN PREV200100390236

TI Identification of a novel human tankyrase through its interaction with the  
adaptor protein \*\*\*Grb14\*\*\*

AU Lyons, Ruth J.; Deane, Roisin; Lynch, Danielle K.; Ye, Zheng-Sheng  
Jeffrey; Sanderson, Georgina M.; Eyre, Helen J.; Sutherland, Grant R.;  
Daly, Roger J. [Reprint author]

CS Cancer Research Program, Garvan Institute of Medical Research, St.  
Vincent's Hospital, Sydney, NSW, 2010, Australia  
r.daly@garvan.org.au

SO Journal of Biological Chemistry, (May 18, 2001) Vol. 276, No. 20, pp.  
17172-17180. print.

CODEN: JBCHA3. ISSN: 0021-9258.

DT Article

LA English

OS Genbank-AF329696

ED Entered STN: 15 Aug 2001

Last Updated on STN: 23 Feb 2002

L2 ANSWER 60 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 30

AN 2001:514026 BIOSIS

DN PREV200100514026

TI The Grb7 family proteins: Structure, interactions with other signaling  
molecules and potential cellular functions.

AU Han, Dong Cho; Shen, Tang-Long; Guan, Jun-Lin [Reprint author]

CS Cancer Biology Laboratories, Department of Molecular Medicine, Cornell  
University, Ithaca, NY, 14853, USA  
jg19@cornell.edu

SO Oncogene, (1 October, 2001) Vol. 20, No. 44, pp. 6315-6321. print.

CODEN: ONCNES. ISSN: 0950-9232.

DT Article

General Review; (Literature Review)

LA English

ED Entered STN: 7 Nov 2001

Last Updated on STN: 23 Feb 2002

L2 ANSWER 61 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:634713 CAPLUS

DN 135:342315

TI Extensive characterization of genetic alterations in a series of human  
colorectal cancer cell lines

AU Gayet, Jacqueline; Zhou, Xiao-Ping; Duval, Alex; Rolland, Sandra; Hoang,  
Jean-Marc; Cottu, Paul; Hamelin, Richard

CS INSERM U434 - CEPH, Paris, 75010, Fr.

SO Oncogene (2001), 20(36), 5025-5032

CODEN: ONCNES; ISSN: 0950-9232

PB Nature Publishing Group

DT Journal

LA English

RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 62 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 31

AN 2001:170169 CAPLUS

DN 135:270832

TI Evolution of instability at coding and non-coding repeat sequences in  
human MSI-H colorectal cancers

AU Duval, Alex; Rolland, Sandra; Compoint, Aurore; Tubacher, Emmanuel;

Iacopetta, Barry; Thomas, Gilles; Hamelin, Richard  
CS INSERM U434, CEPH, Paris, 75010, Fr.  
SO Human Molecular Genetics (2001), 10(5), 513-518  
CODEN: HMGEE5; ISSN: 0964-6906  
PB Oxford University Press  
DT Journal  
LA English  
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 63 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 32  
AN 2001:209006 BIOSIS  
DN PREV200100209006  
TI The BPS domain of Grb10 inhibits the catalytic activity of the insulin and  
IGF1 receptors.  
AU Stein, Evan G.; Gustafson, Thomas A.; Hubbard, Stevan R. [Reprint author]  
CS Department of Pharmacology, Skirball Institute of Biomolecular Medicine,  
New York University School of Medicine, 540 First Avenue, New York, NY,  
10016, USA  
hubbard@tallis.med.nyu.edu  
SO FEBS Letters, (30 March, 2001) Vol. 493, No. 2-3, pp. 106-111. print.  
CODEN: FEBLAL. ISSN: 0014-5793.  
DT Article  
LA English  
ED Entered STN: 2 May 2001  
Last Updated on STN: 18 Feb 2002

L2 ANSWER 64 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2002:69396 BIOSIS  
DN PREV200200069396  
TI Inhibition of insulin receptors tyrosine kinase activity by the molecular  
adapter \*\*\*Grb14\*\*\*  
AU Bereziat, V. [Reprint author]; Kasus-Jacobi, A. [Reprint author];  
Perdereau, D. [Reprint author]; Girard, J. [Reprint author]; Burnol, A.-F.  
[Reprint author]  
CS CNRS UPR1524, ICGM, 9 rue Jules Hetzel, 92190, Meudon, France  
SO Biochemical Society Transactions, (2001) Vol. 29, No. 3, pp. A69. print.  
Meeting Info.: 673rd Bristol Meeting of the Biochemical Society. Bristol,  
London, UK. April 10-12, 2000. Biochemical Society.  
CODEN: BCSTB5. ISSN: 0300-5127.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 16 Jan 2002  
Last Updated on STN: 25 Feb 2002

L2 ANSWER 65 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 33  
AN 2001:131521 CAPLUS  
DN 134:202914  
TI Human growth factor receptor bound 14 binds the activated insulin receptor  
and alters the insulin-stimulated tyrosine phosphorylation levels of  
multiple proteins  
AU Hemming, Richard; Agatep, Ronald; Badiani, Ketan; Wyant, Kerrie; Arthur,  
Gilbert; Gietz, R. Daniel; Triggs-Raine, Barbara  
CS Department of Biochemistry & Medical Genetics, University of Manitoba,  
Winnipeg, MB, R3E 0W3, Can.  
SO Biochemistry and Cell Biology (2001), 79(1), 21-32  
CODEN: BCBIEQ; ISSN: 0829-8211  
PB National Research Council of Canada  
DT Journal  
LA English  
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 66 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and  
Learning Company; All Rights Reserved on STN  
AN 2001:8470 DISSABS Order Number: AAINQ49934  
TI Identification and characterization of downstream signaling partners of  
the endothelial cell-specific receptor tyrosine kinase, Tek/Tie-2  
AU Jones, Nina [Ph.D.]; Dumont, Daniel J. [adviser]  
CS University of Toronto (Canada) (0779)  
SO Dissertation Abstracts International, (2000) Vol. 61, No. 6B, p. 2900.  
Order No.: AAINQ49934. 175 pages.  
ISBN: 0-612-49934-0.  
DT Dissertation

FS DAI  
LA English

L2 ANSWER 67 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and  
Learning Company; All Rights Reserved on STN  
AN 2001:38658 DISSABS Order Number: AAIMQ51679  
TI The insulin signaling pathway: Evidence that Tax1bp1/Txbp151 is a dimeric  
human \*\*\*Grb14\*\*\* interacting protein  
AU Agatep, Ronald [M.Sc.]; Gietz, R. D. [adviser]  
CS The University of Manitoba (Canada) (0303)  
SO .bul. cts International, (2000) Vol. 39, No. 1, p. 151. Order  
No.: AAIMQ51679. 143 pages.  
ISBN: 0-612-51679-2.

DT Dissertation  
FS MAI  
LA English

L2 ANSWER 68 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 34  
AN 2000:666978 CAPLUS  
DN 133:247252

TI \*\*\*Grb14\*\*\* proteins for screening compounds capable of modulating  
insulin receptor tyrosine kinase activity  
IN Burnol, Anne-Francoise; Perdereau, Dominique; Kasus-Jacobi, Anne;  
Bereziat, Veronique; Girard, Jean  
PA Centre National De La Recherche Scientifique-CNRS, Fr.  
SO PCT Int. Appl., 46 pp.  
CODEN: PIXXD2

DT Patent  
LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000055634	A1	20000921	WO 2000-FR613	20000314
	W: AU, CA, JP, NZ, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2790956	A1	20000922	FR 1999-3159	19990315
	FR 2790956	B1	20030523		
	EP 1161687	A1	20011212	EP 2000-910938	20000314
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	NZ 514668	A	20030829	NZ 2000-514668	20000314
	ZA 2001007546	A	20020829	ZA 2001-7546	20010913
PRAI	FR 1999-3159	A	19990315		
	WO 2000-FR613	W	20000314		

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 69 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 35

AN 2000:345087 BIOSIS  
DN PREV200000345087

TI Association of fibroblast growth factor receptor 1 with the adaptor  
protein \*\*\*Grb14\*\*\*. Characterization of a new receptor binding  
partner.

AU Reilly, John F.; Mickey, Gregory; Maher, Pamela A. [Reprint author]  
CS Dept. of Cell Biology, The Scripps Research Institute, 10550 N. Torrey  
Pines Rd., CAL-3, La Jolla, CA, 92037, USA  
SO Journal of Biological Chemistry, (March 17, 2000) Vol. 275, No. 11, pp.  
7771-7778. print.  
CODEN: JBCHA3. ISSN: 0021-9258.

DT Article  
LA English

ED Entered STN: 16 Aug 2000  
Last Updated on STN: 7 Jan 2002

L2 ANSWER 70 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 36

AN 2000:224729 BIOSIS  
DN PREV200000224729

TI Evidence for an interaction between the insulin receptor and Grb7. A role  
for two of its binding domains, PIR and SH2.

AU Kasus-Jacobi, Anne; Bereziat, Veronique; Perdereau, Dominique; Girard,  
Jean; Burnol, Anne-Francoise [Reprint author]  
CS Endocrinologie Metabolisme et Developpement, CNRS, UPR 1524, 9 Rue Jules  
Hetzel, 92190, Meudon, France

SO Oncogene, (April 13, 2000) Vol. 19, No. 16, pp. 2052-2059. print.  
CODEN: ONCNES. ISSN: 0950-9232.  
DT Article  
LA English  
ED Entered STN: 31 May 2000  
Last Updated on STN: 5 Jan 2002

L2 ANSWER 71 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 37  
AN 2000:334281 BIOSIS  
DN PREV200000334281  
TI Grb10 proteins in insulin-like growth factor and insulin receptor  
signaling (Review).  
AU Morrione, Andrea [Reprint author]  
CS Kimmel Cancer Center, Thomas Jefferson University, 233 South 10th Street,  
606 Bluemle Life Sciences Building, Philadelphia, PA, 19107-5541, USA  
SO International Journal of Molecular Medicine, (Feb., 2000) Vol. 5, No. 2,  
pp. 151-154. print.  
ISSN: 1107-3756.  
DT Article  
General Review; (Literature Review)  
LA English  
ED Entered STN: 10 Aug 2000  
Last Updated on STN: 7 Jan 2002

L2 ANSWER 72 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:223032 CAPLUS  
DN 130:247888  
TI Potential effector protein for the Grb7 family of signaling proteins  
IN Daly, Roger John; Sutherland, Robert Lyndsay  
PA Garvan Institute of Medical Research, Australia  
SO PCT Int. Appl., 26 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9915647	A1	19990401	WO 1998-AU795	19980923
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2303760	AA	19990401	CA 1998-2303760	19980923
	AU 9892458	A1	19990412	AU 1998-92458	19980923
	AU 727305	B2	20001207		
	EP 1017802	A1	20000712	EP 1998-944896	19980923
	R: CH, DE, FR, GB, IT, LI, SE				
	JP 2001517435	T2	20011009	JP 2000-512939	19980923
	US 2002037582	A1	20020328	US 2000-509196	20000323
PRAI	AU 1997-9388	A	19970923		
	WO 1998-AU795	W	19980923		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 73 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 38  
AN 2000:433637 BIOSIS  
DN PREV200000433637  
TI Identification of Tek/Tie2 binding partners. Binding to a multifunctional docking site mediates cell survival and migration.  
AU Jones, Nina; Master, Zubin; Jones, Jamie; Bouchard, Denis; Gunji, Yuji; Sasaki, Hiroki; Daly, Roger; Alitalo, Kari; Dumont, Daniel J. [Reprint author]  
CS Sunnybrook and Women's College Health sciences Centre, 2075 Bayview Ave., Research Bldg., S-227, Toronto, ON, M4N 3M5, Canada  
SO Journal of Biological Chemistry, (Oct. 22, 1999) Vol. 274, No. 43, pp. 30896-30905. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 11 oct 2000



Last Updated on STN: 10 Jan 2002

L2 ANSWER 74 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 39  
AN 1999:288188 BIOSIS  
DN PREV199900288188  
TI Sequence analysis identifies a Ras-associating (RA)-like domain in the  
N-termini of band 4.1/JEF domains and in the Grb7/10/14 adapter family.  
AU Wojcik, Jerome; Girault, Jean-Antoine; Labesse, Gilles; Chomilier,  
Jacques; Mornon, Jean-Paul; Callebaut, Isabelle [Reprint author]  
CS Systemes moleculaires and Biologie structurale, LMCP, CNRS UMR 7590,  
Universites Paris 6 et Paris 7, 4 place Jussieu, 75252, Paris Cedex 05,  
France  
SO Biochemical and Biophysical Research Communications, (May 27, 1999) Vol.  
259, No. 1, pp. 113-120. print.  
CODEN: BBRCA9. ISSN: 0006-291X.  
DT Article  
LA English  
ED Entered STN: 5 Aug 1999  
Last Updated on STN: 5 Aug 1999

L2 ANSWER 75 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 40  
AN 1998:491148 BIOSIS  
DN PREV199800491148  
TI Identification of the rat adapter \*\*\*Grb14\*\*\* as an inhibitor of  
insulin actions.  
AU Kasus-Jacobi, Anne; Perdereau, Dominique; Auzan, Colette; Clauser, Eric;  
Van Obberghen, Emmanuel; Mauvais-Jarvis, Franck; Girard, Jean; Burnol,  
Anne-Francoise [Reprint author]  
CS Endocrinologie Metabolisme et Developpement, CNRS, UPR 1524, 9 rue Jules  
Hetzel, 92190 Meudon, France  
SO Journal of Biological Chemistry, (Oct. 2, 1998) Vol. 273, No. 40, pp.  
26026-26035. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
OS Genbank-AF076619  
ED Entered STN: 18 Nov 1998  
Last Updated on STN: 18 Nov 1998

L2 ANSWER 76 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 41  
AN 1998:251777 BIOSIS  
DN PREV199800251777  
TI Interaction of the Grb10 adapter protein with the Raf1 and MEK1 kinases.  
AU Nantel, Andre [Reprint author]; Mohammad-Ali, Khosro; Sherk, Jennifer;  
Posner, Barry I.; Thomas, David Y.  
CS Eukaryotic Genet. Group, Biotechnol. Res. Inst., Natl. Res. Council, 6100  
Royalmount, Montreal, PQ H4P 2R2, Canada  
SO Journal of Biological Chemistry, (April 24, 1998) Vol. 273, No. 17, pp.  
10475-10484. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 9 Jun 1998  
Last Updated on STN: 12 Aug 1998

L2 ANSWER 77 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 42  
AN 1998:225785 BIOSIS  
DN PREV199800225785  
TI Grb10 interacts differentially with the insulin receptor, insulin-like  
growth factor I receptor, and epidermal growth factor receptor via the  
Grb10 src homology 2 (SH2) domain and a second novel domain located  
between the Pleckstrin homology and SH2 domains.  
AU He, Weimin; Rose, David W.; Olefsky, Jerrold M.; Gustafson, Thomas A.  
[Reprint author]  
CS Metabolex Inc., 3876 Bay Cent. Pl., Hayward, CA 94545, USA  
SO Journal of Biological Chemistry, (March 20, 1998) Vol. 273, No. 12, pp.  
6860-6867. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 20 May 1998  
Last Updated on STN: 20 May 1998

L2 ANSWER 78 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
 AN 1998:907280 SCISEARCH  
 GA The Genuine Article (R) Number: 137GQ  
 TI A novel FGF signaling pathway u \*\*\*Grb14\*\*\* binds to FGF receptor 1.  
 AU Reilly J F (Reprint); Mickey G; Maher P A  
 CS SCRIPPS RES INST, DEPT CELL BIOL, LA JOLLA, CA 92037  
 CYA USA  
 SO MOLECULAR BIOLOGY OF THE CELL, (NOV 1998) Vol. 9, Supp. [s], pp.  
 1365-1365.  
 Publisher: AMER SOC CELL BIOLOGY, PUBL OFFICE, 9650 ROCKVILLE PIKE,  
 BETHESDA, MD 20814.  
 ISSN: 1059-1524.  
 DT Conference; Journal  
 FS LIFE  
 LA English  
 REC Reference Count: 0

L2 ANSWER 79 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 1998:443196 BIOSIS  
 DN PREV199800443196  
 TI The Grb7 family of signalling proteins.  
 AU Daly, Roger J. [Reprint author]  
 CS Cancer Res. Program, Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,  
 NSW 2010, Australia  
 SO Cellular signalling, (Oct., 1998) Vol. 10, No. 9, pp. 613-618. print.  
 CODEN: CESIEY. ISSN: 0898-6568.  
 DT Article  
 General Review; (Literature Review)  
 LA English  
 ED Entered STN: 21 Oct 1998  
 Last Updated on STN: 21 Oct 1998

L2 ANSWER 80 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 1999:16001 BIOSIS  
 DN PREV199900016001  
 TI A novel FGF signaling pathway u \*\*\*GRB14\*\*\* binds to FGF receptor 1.  
 AU Reilly, John F.; Mickey, Gregory; Maher, Pamela A.  
 CS Dep. Cell Biol., Scripps Res. Inst., La Jolla, CA 92037, USA  
 SO Molecular Biology of the Cell, (Nov., 1998) Vol. 9, No. SUPPL., pp. 236A.  
 print.  
 Meeting Info.: 38th Annual Meeting of the American Society for Cell  
 Biology. San Francisco, California, USA. December 12-16, 1998. American  
 Society for Cell Biology.  
 CODEN: MBCEEV. ISSN: 1059-1524.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 20 Jan 1999  
 Last Updated on STN: 20 Jan 1999

L2 ANSWER 81 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and  
 Learning Company; All Rights Reserved on STN  
 AN 97:70470 DISSABS Order Number: AAR0598267 (not available for sale by  
 UMI)  
 TI ERBB RECEPTOR SIGNALLING IN HUMAN BREAST CANCER (TYROSINE KINASES)  
 AU JANES, PETER WARWICK [PH.D.]  
 CS UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA) (0423)  
 SO Dissertation Abstracts International, (1997) Vol. 58, No. 6B, p. 2970.  
 Order No.: AAR0598267 (not available for sale by UMI).  
 DT Dissertation  
 FS DAI  
 LA English  
 ED Entered STN: 19971104  
 Last Updated on STN: 19971104

L2 ANSWER 82 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 43  
 AN 1998:28109 BIOSIS  
 DN PREV199800028109  
 TI Cloning, chromosome localization, expression, and characterization of an  
 Src homology 2 and pleckstrin homology domain-containing insulin receptor  
 binding protein hGrb10gamma.  
 AU Dong, Lily Q.; Du, Hongyan; Porter, Sarah G.; Kolakowski, Lee F., Jr.;  
 Lee, Adrian V.; Mandarino, J.; Fan, Jianbing; Yee, Douglas; Liu, Feng  
 [Reprint author]

CS Dep. Pharmacol., Univ. Texas Health Sci. Cent., 7703 Floyd Curl Dr., San  
 Antonio, TX 78284-7764, USA  
 SO Journal of Biological Chemistry, (Nov. 14, 1997) Vol. 272, No. 46, pp.  
 29104-29112. print.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DT Article  
 LA English  
 OS Genbank-AF001534  
 ED Entered STN: 14 Jan 1998  
 Last Updated on STN: 14 Jan 1998

L2 ANSWER 83 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 44  
 AN 1997:221295 BIOSIS  
 DN PREV199799513011  
 TI Structural determinants of the interaction between the erbB2 receptor and  
 the Src homology 2 domain of Grb7.  
 AU Janes, Peter W.; Lackmann, Martin; Church, W. Bret; Sanderson, Georgina  
 M.; Sutherland, Robert L.; Daly, Roger J. [Reprint author]  
 CS Cancer Res. Program, Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,  
 NSW 2010, Australia  
 SO Journal of Biological Chemistry, (1997) Vol. 272, No. 13, pp. 8490-8497.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DT Article  
 LA English  
 ED Entered STN: 22 May 1997  
 Last Updated on STN: 22 May 1997

L2 ANSWER 84 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 45  
 AN 1997:110178 BIOSIS  
 DN PREV199799409381  
 TI Human GRB-IR-beta/GRB10: splice variants of an insulin and growth factor  
 receptor-binding protein with PH and SH2 domains.  
 AU Frantz, J. Daniel; Giorgetti-Peraldi, Sophie; Ottinger, Elizabeth A.;  
 Shoelson, Steven E. [Reprint author]  
 CS Joslin Diabetes Cent., One Joslin Place, Boston, MA 02215, USA  
 SO Journal of Biological Chemistry, (1997) Vol. 272, No. 5, pp. 2659-2667.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DT Article  
 LA English  
 ED Entered STN: 10 Mar 1997  
 Last Updated on STN: 10 Mar 1997

L2 ANSWER 85 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 46  
 AN 1997:26254 CAPLUS  
 DN 126:43162  
 TI GDU: a new target for the erbB family of protein tyrosine kinases and a  
 cDNA encoding it  
 IN Daly, Roger John; Sutherland, Robert Lyndsay  
 PA Garvan Institute of Medical Research, Australia; Daly, Roger John;  
 Sutherland, Robert Lyndsay  
 SO PCT Int. Appl., 15 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9634951	A1	19961107	WO 1996-AU258	19960502
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	CA 2220016	AA	19961107	CA 1996-2220016	19960502
	AU 9654904	A1	19961121	AU 1996-54904	19960502
	AU 701733	B2	19990204		
	EP 840786	A1	19980513	EP 1996-911844	19960502
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11505415	T2	19990521	JP 1996-532859	19960502
	US 2002086328	A1	20020704	US 1998-945771	19980422
	US 6465623	B2	20021015		
	US 2003044834	A1	20030306	US 2002-242332	20020911

	US 2003129639	A1	20030710	US 2002-323001	20021218
PRAI	AU 1995-2742	A	19950502		
	WO 1996-AU258	W	19960502		
	US 1998-945771	A3	19980422		
	US 2002-242332	A3	20020911		

L2 ANSWER 86 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 47  
 AN 1996:484539 BIOSIS  
 DN PREV199699199795  
 TI Cloning and characterization of \*\*\*GRB14\*\*\* , a novel member of the  
 GRB7 gene family.  
 AU Daly, Roger J. [Reprint author]; Sanderson, Georgina M.; Janes, Peter W.;  
 Sutherland, Robert L.  
 CS Cancer Biol. Div., Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,  
 NSW 2010, Australia  
 SO Journal of Biological Chemistry, (1996) Vol. 271, No. 21, pp. 12502-12510.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DT Article  
 LA English  
 OS EMBL-L76687; Genbank-L76687  
 ED Entered STN: 24 Oct 1996  
 Last Updated on STN: 10 Dec 1996

L2 ANSWER 87 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 DUPLICATE 48  
 AN 1996:438181 BIOSIS  
 DN PREV199699151787  
 TI Assignment of the human \*\*\*GRB14\*\*\* gene to chromosome 2q22-q24 by  
 fluorescence in situ hybridization.  
 AU Baker, Elizabeth; Sutherland, Grant R.; Sutherland, Robert L.; Daly, Roger  
 J. [Reprint author]  
 CS Cancer Biol. Div., Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,  
 NSW 2010, Australia  
 SO Genomics, (1996) Vol. 36, No. 1, pp. 218-220.  
 CODEN: GNMCEP. ISSN: 0888-7543.  
 DT Article  
 LA English  
 OS EMBL-L76687; Genbank-L76687  
 ED Entered STN: 26 Sep 1996  
 Last Updated on STN: 5 Nov 1996

L2 ANSWER 88 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN ADH68285 protein DGENE  
 TI Identification and selection of specific interaction agents by phage  
 display, comprises using a carrier with a polymer-free surface to which  
 affinity ligands are bound.  
 IN Hill O; Otteleben H  
 PA (GRAF-N) GRAFFINITY PHARM AG.  
 PI WO 2003102591 A2 20031211 59p  
 AI WO 2002-EP13395 20021127  
 PRAI DE 2001-1058242 20011128  
 DT Patent  
 LA German  
 OS 2004-043197 [04]  
 CR N-PSDB: ADH68286  
 DESC Human \*\*\*GRB14\*\*\* protein.

L2 ANSWER 89 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN AAW07871 Protein DGENE  
 TI A new signalling protein designated GDU related to erbB receptor targets  
 - also DNA encoding it, probes, and monoclonal antibodies for detection  
 and treatment of breast and prostate cancer  
 IN Daly R J; Sutherland R L  
 PA (GARV-N) GARVAN INST MEDICAL RES.  
 PI WO 9634951 A1 19961107 17p  
 AI WO 1996-AU258 19960502  
 PRAI AU 1995-2742 19950502  
 DT Patent  
 LA English  
 OS 1996-506156 [50]  
 CR N-PSDB: AAT44581  
 DESC GDU (or \*\*\*Grb14\*\*\* ), a signalling protein.

L2 ANSWER 90 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN ADH68286 cDNA DGENE

TI Identification and selection of specific interaction agents by phage display, comprises using a carrier with a polymer-free surface to which affinity ligands are bound.  
IN Hill O; Otteleben H  
PA (GRAF-N) GRAFFINITY PHARM AG.  
PI WO 2003102591 A2 20031211 59p  
AI WO 2002-EP13395 20021127  
PRAI DE 2001-1058242 20011128  
DT Patent  
LA German  
OS 2004-043197 [04]  
CR P-PSDB: ADH68285  
DESC Human \*\*\*GRB14\*\*\* cDNA.

L2 ANSWER 91 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAX25366 cDNA DGENE  
TI New candidate effector for the Grb7 family of signaling proteins, and specific antibody, useful for detection and treatment of cancer  
IN Daly R J; Sutherland R L  
PA (GARV-N) GARVAN INST MEDICAL RES.  
PI WO 9915647 A1 19990401 24p  
AI WO 1998-AU795 19980923  
PRAI AU 1997-9388 19970923  
DT Patent  
LA English  
OS 1999-254707 [21]  
CR P-PSDB: AAY05734  
DESC Human Grb7 effector 2.2412 cDNA.

L2 ANSWER 92 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAT44581 DNA DGENE  
TI A new signalling protein designated GDU related to erbB receptor targets - also DNA encoding it, probes, and monoclonal antibodies for detection and treatment of breast and prostate cancer  
IN Daly R J; Sutherland R L  
PA (GARV-N) GARVAN INST MEDICAL RES.  
PI WO 9634951 A1 19961107 17p  
AI WO 1996-AU258 19960502  
PRAI AU 1995-2742 19950502  
DT Patent  
LA English  
OS 1996-506156 [50]  
CR P-PSDB: AAW07871  
DESC GDU (or \*\*\*Grb14\*\*\* ), a signalling protein.

L2 ANSWER 93 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AY419444 GenBank (R)  
GenBank ACC. NO. (GBN): AY419444  
GenBank VERSION (VER): AY419444.1 GI:39775401  
CAS REGISTRY NO. (RN): 629064-36-4  
SEQUENCE LENGTH (SQL): 1361  
MOLECULE TYPE (CI): DNA; linear  
DIVISION CODE (CI): Genome Survey Sequence  
DATE (DATE): 17 Dec 2003  
DEFINITION (DEF): Mus musculus \*\*\*GRB14\*\*\* gene, VIRTUAL TRANSCRIPT, partial sequence, genomic survey sequence.  
KEYWORDS (ST): GSS  
SOURCE: Mus musculus (house mouse)  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

COMMENT:

These sequences were made by sequencing genomic exons and ordering them based on alignment.

REFERENCE: 1 (bases 1 to 1361)  
AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.; Kejarawal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.; Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.; White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.  
TITLE (TI): Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios  
JOURNAL (SO): Science, 302 (5652), 1960-1963 (2003)  
OTHER SOURCE (OS): CA 140:140421  
REFERENCE: 2 (bases 1 to 1361)

AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;  
 Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;  
 Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;  
 White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (16-NOV-2003) Celera Genomics, 45 West Gude  
 Drive, Rockville, MD 20850, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1361	/organism="Mus musculus" /mol-type="genomic DNA" /db-xref="taxon:10090"
gene	<1..>1361	/gene="GRB14" /locus-tag="HCM6892"

SEQUENCE (SEQ):

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1 atgagtcctga gtgcaagaag agtcaccctg cctgcgataa caccaatatg tctacagaag
61 aggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaagaaccgt agaggaccac
241 gagctgccaa ctgaagtgtg gtctcactgg ggagtgggaag aagacaataa gctgtatctt
301 agaaagaatt atgccaaata tgaatttttt aagaacccaa tgnnnnnnnn nnnnnnnnnn
361 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngtg
421 tttttaagct ccagcacgta tcctgaaatc catggcttct tacatgcaaa ggaacagggga
481 aagaagtctt ggaaaaaagc ttactttttt ctcagaagat ctggcttata tttttctact
541 aaaggcacat ccaaggaacc acggcatttg cagcttttca gtgaattcag cactagtcac
601 gtttatatgt cactggcagg aaaaaaaaaa cacggagcgc caactcccta tggattctgc
661 ttaaacctaa caaagcagga gggcccccgg acctgaaaat gctctgtgca gaagaagagc
721 agagcaggac gtgctgggtg accgccatcc gactgctgaa gnnnnnnnnn nnnnnnnnnn
781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
841 nnagaagcgt atcagagaat tcctagtag caatggactt ctcaggtgag aagagcagag
901 tcatagacaa cccactgaa gcgctttcgg ttgctgttga ggaaggcctc gcgtggagga
961 aaaaaggctg tttacgcctg gggaatcacg gaagcccag tgccccctcc cagagctctg
1021 ctgtgaacat ggctctccat cgggtcccaac catggtttca ccacagaatt tccagagatg
1081 aggctcagcg gctgatcatt cggcaggggc ctgtggatgg agttttcttg gtacgggata
1141 gtcagagtaa cccagaact tttgtactgt caatgagtca tggacaaaag ataaaacact
1201 atcaaattat acccgtagaa gatgatgttg agctgttcca tactctggat gatggccata
1261 cgaagttcac agacctcatc cagctggttg agttctacca gctcaacagg ggggtccttc
1321 cttgcaagct gaagcattac tgtgctagga tggctgttta g

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L2 ANSWER 94 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AY419443 GenBank (R)  
 GenBank ACC. NO. (GBN): AY419443  
 GenBank VERSION (VER): AY419443.1 GI:39775400  
 CAS REGISTRY NO. (RN): 629064-35-3  
 SEQUENCE LENGTH (SQL): 1362  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Genome Survey Sequence  
 DATE (DATE): 17 Dec 2003  
 DEFINITION (DEF): Pan troglodytes \*\*\*GRB14\*\*\* gene, VIRTUAL  
 TRANSCRIPT, partial sequence, genomic survey sequence.  
 KEYWORDS (ST): GSS  
 SOURCE: Pan troglodytes (chimpanzee)  
 ORGANISM (ORGN): Pan troglodytes  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Pan

COMMENT:

These sequences were made by sequencing genomic exons and ordering  
 them based on alignment.

REFERENCE: 1 (bases 1 to 1362)  
 AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;  
 Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;  
 Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;  
 White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.  
 TITLE (TI): Inferring nonneutral evolution from human-chimp-mouse  
 orthologous gene trios  
 JOURNAL (SO): Science, 302 (5652), 1960-1963 (2003)  
 OTHER SOURCE (OS): CA 140:140421  
 REFERENCE: 2 (bases 1 to 1362)  
 AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;  
 Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;  
 Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;

TITLE (TI): White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.  
JOURNAL (SO): Direct Submission  
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude  
Drive, Rockville, MD 20850, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1362	/organism="Pan troglodytes" /mol-type="genomic DNA" /db-xref="taxon:9598"
gene	<1..>1362	/gene="GRB14" /locus-tag="HCM6892"

SEQUENCE (SEQ):

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1 atgagtttga gtgcaagaag agtcactctg cctgcaataa cgccaataat tctacagaaa
61 aggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaat agaagaccac
241 gaactgggtga ttgaagtgtc atccaactgg gggatagaag aagaaaacaa actannnnnn
301 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
361 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnatg
421 tttctgagtt caagcacata tcctgaaatt catggtttct tacatgcgaa agaacaggga
481 aagaagtctt ggaaaaaaat ttactttttt ctaagaagat ctggtttata tttttctact
541 aaaggaacat caaagnnnnn nnnnnnnnnn nnnnnnnnnn gtgaatttgg caatagtgtat
601 atttatgtgt nnctggcagg caaaaaaaa catggagcac cgactannnn nnnnnnnnnn
661 nnnnnnccta acaaaagcggg agggcccccga gacctgaaaa tgctctgtgc agaagaagag
721 cagagtagga cgtgctgggt gaccgcgatt agattgctta agnnnnnnnn nnnnnnnnnn
781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
841 nnnagaagta tatcagagaa ttccctggta gcaatggant tctcaggcca gaaaagcaga
901 gttatagaaa atccnnntga agccctttca gttgcnnntg aagaaggact cgcttgaggg
961 nnnnnnnnnn nnttacgnnt gggcactcac ggtagcccca ctgcctcttc acagagctct
1021 gccacaaaca tggctatcca ccggtcccag ccatggtttc accacaaaat ttctagagat
1081 gaggctcagc gattgattat tcagcaagga cttgtggatg gnnttttctt ggtacgggat
1141 agtcagagta accccaaaac tttcgtactg tcaatgagtc atggacaaaa aataaagcac
1201 tttcaaatta taccagtaga agatgacggg gaaatgttcc acacactgga tgatggccac
1261 acaagattta cagatctaata acagctgggt gagttctatc aactcaataa gggcgttctt
1321 ccttgcaagt tgaaacatta ttgtgctagg attgctctct ag
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L2 ANSWER 95 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AY419442 GenBank (R)  
GenBank ACC. NO. (GBN): AY419442  
GenBank VERSION (VER): AY419442.1 GI:39775399  
CAS REGISTRY NO. (RN): 629064-34-2  
SEQUENCE LENGTH (SQL): 1362  
MOLECULE TYPE (CI): DNA; linear  
DIVISION CODE (CI): Genome Survey Sequence  
DATE (DATE): 17 Dec 2003  
DEFINITION (DEF): Homo sapiens \*\*\*GRB14\*\*\* gene, VIRTUAL TRANSCRIPT,  
partial sequence, genomic survey sequence.  
KEYWORDS (ST): GSS  
SOURCE: Homo sapiens (human)  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

COMMENT:

These sequences were made by sequencing genomic exons and ordering  
them based on alignment.

REFERENCE: 1 (bases 1 to 1362)  
AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;  
Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;  
Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;  
White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.  
TITLE (TI): Inferring nonneutral evolution from human-chimp-mouse  
orthologous gene trios  
JOURNAL (SO): Science, 302 (5652), 1960-1963 (2003)  
OTHER SOURCE (OS): CA 140:140421  
REFERENCE: 2 (bases 1 to 1362)  
AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;  
Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;  
Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;  
White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (16-NOV-2003) Celera Genomics, 45 West Gude

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1362	/organism="Homo sapiens" /mol-type="genomic DNA" /db-xref="taxon:9606"
gene	<1..>1362	/gene="GRB14" /locus-tag="HCM6892"

## SEQUENCE (SEQ):

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1 atgagtttga gtgcaagaag agtcactctg cctgcaataa cgccaataat tctacagaaa
61 aggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaagaacaat agaagaccac
241 gaactgggtga ttgaagtgtc atccaactgg gggatagaag aagaaaacaa actatacttt
301 agaaaaaatt atgccaaata tgagttcttt aaaaacccaa tgnnnnnnnn nnnnnnnnnn
361 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnatg
421 ttcttgagtt caagcacata tcctgaaatt catggtttct tacatgcgaa agaacaggga
481 aagaagtctt ggaaaaaaat ttactttttt ctaagaagat ctggtttata tttttctact
541 aaaggaacat caaagnaacc gcggcatttg cagtttttca gcgaatttgg caatagtgtat
601 atttatgtgt cactggcagg caaaaaaaa catggagcac cgactaacta tggattctgc
661 tttaagccta acaaagcggg agggccccga gacctgaaaa tgctctgtgc agaagaagag
721 cagagtagga cgtgctgggt gaccgcgatt agattgctta agnnnnnnnn nnnnnnnnnn
781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
841 nnnagaagta tatcagagaa ttccctggta gcaatggact tctcaggcca gaaaagcaga
901 gttatagaaa atcccactga agccctttca gttgcggttg aagaaggact cgcttggagg
961 aaaaaaggat gtttacgcct gggcactcac ggtagcccca ctgcctcttc acagagctct
1021 gccacaaaca tggctatcca ccggtccag ccatggtttc accacaaaat ttctagagat
1081 gaggtcagc gattgattat tcagcaagga cttgtggatg gagttttctt ggtacgggat
1141 agtcagagta accccaaaac ttctgtactg tcaatgagtc atggacaaaa aataaagcac
1201 tttcaaatta taccagtaga agatgacggt gaaatgttcc acacactgga tgatggccac
1261 acaagattta cagatctaata acagctgggt gagttctatc aactcaataa gggcgttctt
1321 ccttgcaagt tgaacatta ttgtgctagg attgctctct ag

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L2 ANSWER 96 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BC053559 GenBank (R)  
 GenBank ACC. NO. (GBN): BC053559  
 GenBank VERSION (VER): BC053559.1 GI:31657223  
 CAS REGISTRY NO. (RN): 535081-55-1  
 SEQUENCE LENGTH (SQL): 1872  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 30 Jun 2004  
 DEFINITION (DEF): Homo sapiens growth factor receptor-bound protein 14,  
 mRNA (cDNA clone MGC:61485 IMAGE:6162863), complete  
 cds.  
 KEYWORDS (ST): MGC  
 SOURCE: Homo sapiens (human)  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

## COMMENT:

Contact: MGC help desk  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: ATCC/DCTD/DTP  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: National Institutes of Health Intramural  
 Sequencing Center (NISC),  
 Gaithersburg, Maryland;  
 Web site: <http://www.nisc.nih.gov/>  
 Contact: nisc\_mgc@nhgri.nih.gov  
 Akhter, N., Ayele, K., Beckstrom-Sternberg, S.M., Benjamin, B.,  
 Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,  
 Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P.,  
 Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Laric, P., Legaspi, R.,  
 Maduro, Q.L., Masiello, C., Maskeri, B., Mastrian, S.D., McCloskey, J.C.,  
 McDowell, J., Pearson, R., Stantripop, S., Thomas, P.J., Touchman, J.W.,  
 Tsurgeon, C., Vogt, J.L., Walker, M.A., Wetherby, K.D., Wiggins, L.,  
 Young, A., Zhang, L.-H. and Green, E.D.  
 Clone distribution: MGC clone distribution information can be found  
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>



Series: IRAK Plate: 115 Row: m Column: 17

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 4758477.

REFERENCE: 1 (bases 1 to 1872)  
AUTHOR (AU): Strausberg,R.L.; Feingold,E.A.; Grouse,L.H.; Derge,J.G.; Klausner,R.D.; Collins,F.S.; Wagner,L.; Shenmen,C.M.; Schuler,G.D.; Altschul,S.F.; Zeeberg,B.; Buetow,K.H.; Schaefer,C.F.; Bhat,N.K.; Hopkins,R.F.; Jordan,H.; Moore,T.; Max,S.I.; Wang,J.; Hsieh,F.; Diatchenko,L.; Marusina,K.; Farmer,A.A.; Rubin,G.M.; Hong,L.; Stapleton,M.; Soares,M.B.; Bonaldo,M.F.; Casavant,T.L.; Scheetz,T.E.; Brownstein,M.J.; Usdin,T.B.; Toshiyuki,S.; Carninci,P.; Prange,C.; Raha,S.S.; Loquellano,N.A.; Peters,G.J.; Abramson,R.D.; Mullahy,S.J.; Bosak,S.A.; McEwan,P.J.; McKernan,K.J.; Malek,J.A.; Gunaratne,P.H.; Richards,S.; Worley,K.C.; Hale,S.; Garcia,A.M.; Gay,L.J.; Hulyk,S.W.; Villalon,D.K.; Muzny,D.M.; Sodergren,E.J.; Lu,X.; Gibbs,R.A.; Fahey,J.; Helton,E.; Kettelman,M.; Madan,A.; Rodrigues,S.; Sanchez,A.; Whiting,M.; Madan,A.; Young,A.C.; Shevchenko,Y.; Bouffard,G.G.; Blakesley,R.W.; Touchman,J.W.; Green,E.D.; Dickson,M.C.; Rodriguez,A.C.; Grimwood,J.; Schmutz,J.; Myers,R.M.; Butterfield,Y.S.; Krzywinski,M.I.; Skalska,U.; Smailus,D.E.; Schnerch,A.; Schein,J.E.; Jones,S.J.; Marra,M.A.  
TITLE (TI): Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences  
JOURNAL (SO): Proc. Natl. Acad. Sci. U.S.A., 99 (26), 16899-16903 (2002)  
OTHER SOURCE (OS): CA 138:131969  
REFERENCE: 2 (bases 1 to 1872)  
AUTHOR (AU): Strausberg,R.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (09-JUN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1872	/organism="Homo sapiens" /mol-type="mRNA" /db-xref="taxon:9606" /clone="MGC:61485 IMAGE:6162863" /tissue-type="Skin, melanotic melanoma." /clone-lib="NIH-MGC-72" /lab-host="DH10B"
gene	1..1872	/note="Vector: pCMV-SPORT6" /gene="GRB14" /db-xref="LocusID:2888" /db-xref="MIM:601524"
CDS	12..1634	/gene="GRB14" /codon-start=1 /product="growth factor receptor-bound protein 14" /protein-id="AAH53559.1" /db-xref="GI:31657224" /db-xref="LocusID:2888" /db-xref="MIM:601524" /translation="MTTSLQDQGSAAASRAAARDS PLAAQVCGAAQGRGDAHDLAPAPW LHARALLPLPDGTRGCAADRRKKKDLDPPEMPSI PNPFPELCCSPFTSVLSADLFPKA NSRKKQVIKVYSEDETSRALDVPDITARDVCQL LILKNHYIDHHSWTLFEHLPHIGV ERTIEDHELVIEVLSNWGIEEENKLYFRKNYAKY EFFKNPMYFFPEHMSVFATETNGE ISPTQILQMFLSSSTYPEIHGFLHAKEQGKSKW KIYFFLRRSGLYFSTKGTSKEPRH LQFFSEFGNSDIYVSLAGKKKHGAPTNYGFCFKP NKAGGPRDLKMLCAEEEEQSRTCWV TAIRLLKYGMQLYQNYMHPYQGRSGCSSQSISPM RSISENSLVAMDFSGQKSRVIENP

TEALSVAVEEGLAWRKKGCLRLGTHGSPTASSQS  
SATNMAIHRSPWFHHKISRDEAQ  
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RFTDLIQLVEFYQLNKGVLCKLKHYPARIAL"

SEQUENCE (SEQ):

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121 acgacctggc  gccggcccc  tggctgcacg  cgcgagcgct  cctgccccct  ccggacggga
181 cccgcggctg  tgctgcagac  aggagaaaaa  agaaagatct  tgatgttccg  gaaatgccat
241 ctattccaaa  ccttttctct  gagctatgct  gttctccatt  tacatctgtt  ttgtcagcag
301 acctatttcc  caaagcaaat  tcaaggaaaa  aacaggtgat  taaagtatac  agtgaagatg
361 aaaccagcag  ggctttagat  gtacccagtg  acataacggc  tcgagatgtt  tgtcagctgt
421 tgatcctgaa  gaatcattac  attgatgacc  acagctggac  cctttttgag  cacctgcctc
481 acataggtgt  agaaagaaca  atagaagacc  acgaactggt  gattgaagtg  ctatccaact
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601 ttaaaaaccc  aatgtatttt  tttccagagc  atatggtatc  ttttgcaact  gaaaccaatg
661 gtgaaatgat  cccacacagc  attttgcaga  tgtttctgag  ttcaagcaca  tatcctgaaa
721 ttcattgttt  cttacatgcg  aaagaagctc  gaaagaagtc  ttggaaaaaa  atttactttt
781 ttctaagaag  atctggttta  tatttttcta  ctaaaggaac  atcaaaggaa  ccgcggcatt
841 tgcagttttt  cagcgaattt  ggcaatagtg  atatttatgt  gtcactggca  ggcaaaaaaa
901 aacatggagc  accgactaac  tatggattct  gctttaagcc  taacaaagcg  ggagggcccc
961 gagacctgaa  aatgctctgt  gcagaagaag  agcagagtag  gacgtgctgg  gtgaccgcga
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1861 aaaaaaaaaa  aa
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L2 ANSWER 97 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AK074599 GenBank (R)  
GenBank ACC. NO. (GBN): AK074599  
GenBank VERSION (VER): AK074599.1 GI:22760142  
CAS REGISTRY NO. (RN): 453084-12-3  
SEQUENCE LENGTH (SQL): 1513  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Primates  
DATE (DATE): 3 Sep 2002  
DEFINITION (DEF): Homo sapiens cDNA FLJ90118 fis, clone HEMBA1006916,  
highly similar to Homo sapiens \*\*\*Grb14\*\*\* mRNA.  
SOURCE: Homo sapiens embryo, 10 weeks whole embryo, mainly head  
cDNA to mRNA, clone\_lib:HEMBA1 clone:HEMBA1006916.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 432 a 399 c 346 g 336 t

COMMENT:

NEDO human cDNA sequencing project supported by Ministry of  
Economy, Trade and Industry of Japan; cDNA full insert sequencing:  
Research Association for Biotechnology; cDNA library construction:  
Institute of Medical Science, University of Tokyo, Laboratory of  
Genome Structure, Human Genome Center; cDNA 5'- & 3'-end one pass  
sequencing and clone selection: Helix Research Institute (supported  
by Japan Key Technology Center etc.).

REFERENCE:

1  
AUTHOR (AU): Isogai,T.; Ota,T.; Nishikawa,T.; Hayashi,K.; Otsuki,T.;  
Sugiyama,T.; Suzuki,Y.; Nagai,K.; Sugano,S.; Ishii,S.;  
Kawai-Hio,Y.; Saito,K.; Yamamoto,J.; Wakamatsu,A.;  
Nakamura,Y.; Kojima,S.; Nagahari,K.; Masuho,Y.; Ono,T.;  
Okano,K.; Yoshikawa,Y.; Aotsuka,S.; Sasaki,N.;  
Hattori,A.; Okumura,K.; Iwayanagi,T.; Ninomiya,K.

TITLE (TI): NEDO human cDNA sequencing project  
JOURNAL (SO): Unpublished

REFERENCE: 2 (bases 1 to 1513)  
 AUTHOR (AU): Isogai,T.; Otsuki,T.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (25-MAR-2002) Takao Isogai, Helix Research  
 Institute, Genomics Laboratory; 1532-3 Yana, Kisarazu,  
 Chiba 292-0812, Japan (E-mail:genomics@hri.co.jp,  
 Tel:81-438-52-3975, Fax:81-438-52-3986)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1513	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="HEMBA1006916" /tissue-type="whole embryo, mainly head" /clone-lib="HEMBA1" /dev-stage="embryo, 10 weeks" /note="cloning vector: pME18SFL3"

# SEQUENCE (SEQ):

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1381 acattatcat gtgaaaagaa tgtatttcac ctgcaagtta caaaaaaata gtttgatcat
1441 tacaataaag caagacctg gattgacttt acattcatca tttaaaattc attagttaaa
1501 attaaacctt agg
  
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L2 ANSWER 98 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BC021820 GenBank (R)  
 GenBank ACC. NO. (GBN): BC021820  
 GenBank VERSION (VER): BC021820.1 GI:18256069  
 CAS REGISTRY NO. (RN): 387318-13-0  
 SEQUENCE LENGTH (SQL): 870  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Rodents  
 DATE (DATE): 16 Apr 2003  
 DEFINITION (DEF): Mus musculus growth factor receptor bound protein 14,  
 mRNA (cDNA clone IMAGE:3967891), partial cds.  
 SOURCE: Mus musculus (house mouse)  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 277 a 183 c 209 g 201 t

# COMMENT:

Contact: MGC help desk  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Gilbert Smith, Ph.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Baylor College of Medicine Human Genome  
 Sequencing Center  
 Center code: BCM-HGSC  
 Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>

Contact: amg@bcm.tmc.edu

Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H.,  
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,  
A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found  
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAK Plate: 40 Row: g Column: 24.

REFERENCE: 1 (bases 1 to 870)  
AUTHOR (AU): Strausberg,R.L.; Feingold,E.A.; Grouse,L.H.;  
Derge,J.G.; Klausner,R.D.; Collins,F.S.; Wagner,L.;  
Shenmen,C.M.; Schuler,G.D.; Altschul,S.F.; Zeeberg,B.;  
Buetow,K.H.; Schaefer,C.F.; Bhat,N.K.; Hopkins,R.F.;  
Jordan,H.; Moore,T.; Max,S.I.; Wang,J.; Hsieh,F.;  
Diatchenko,L.; Marusina,K.; Farmer,A.A.; Rubin,G.M.;  
Hong,L.; Stapleton,M.; Soares,M.B.; Bonaldo,M.F.;  
Casavant,T.L.; Scheetz,T.E.; Brownstein,M.J.;  
Usdin,T.B.; Toshiyuki,S.; Carninci,P.; Prange,C.;  
Raha,S.S.; Loquellano,N.A.; Peters,G.J.; Abramson,R.D.;  
Mullahy,S.J.; Bosak,S.A.; McEwan,P.J.; McKernan,K.J.;  
Malek,J.A.; Gunaratne,P.H.; Richards,S.; Worley,K.C.;  
Hale,S.; Garcia,A.M.; Gay,L.J.; Hulyk,S.W.;  
Villalon,D.K.; Muzny,D.M.; Sodergren,E.J.; Lu,X.;  
Gibbs,R.A.; Fahey,J.; Helton,E.; Kettman,M.; Madan,A.;  
Rodrigues,S.; Sanchez,A.; Whiting,M.; Madan,A.;  
Young,A.C.; Shevchenko,Y.; Bouffard,G.G.;  
Blakesley,R.W.; Touchman,J.W.; Green,E.D.;  
Dickson,M.C.; Rodriguez,A.C.; Grimwood,J.; Schmutz,J.;  
Myers,R.M.; Butterfield,Y.S.; Krzywinski,M.I.;  
Skalska,U.; Smailus,D.E.; Schnerch,A.; Schein,J.E.;  
Jones,S.J.; Marra,M.A.  
TITLE (TI): Generation and initial analysis of more than 15,000  
full-length human and mouse cDNA sequences  
JOURNAL (SO): Proc. Natl. Acad. Sci. U.S.A., 99 (26), 16899-16903  
(2002)  
OTHER SOURCE (OS): CA 138:84318  
REFERENCE: 2 (bases 1 to 870)  
AUTHOR (AU): Strausberg,R.  
TITLE (TI): Direct Submission  
JOURNAL (SO): submitted (18-JAN-2002) National Institutes of Health,  
Mammalian Gene Collection (MGC), Cancer Genomics  
Office, National Cancer Institute, 31 Center Drive,  
Room 11A03, Bethesda, MD 20892-2590, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..870	/organism="Mus musculus" /mol-type="mRNA" /strain="FVB/N" /db-xref="taxon:10090" /clone="IMAGE:3967891" /tissue-type="Mammary tumor. Metallothionien-TGF alpha model. 10 month old virgin mouse. Taken by biopsy." /clone-lib="NCI-CGAP-Mam1" /lab-host="DH10B" /note="Vector: pCMV-SPORT6"
gene	<1..870	/gene="Grb14" /db-xref="LocusID:50915" /db-xref="MGI:1355324"
CDS	<1..625	/gene="Grb14" /codon-start=2 /product="Grb14 protein" /protein-id="AAH21820.1" /db-xref="GI:18256070" /db-xref="LocusID:50915" /db-xref="MGI:1355324" /translation="VTAIRLLKDGMLYQNYMHP YQGRSACNSQSMSPMRVSSENSLV AMDFSGEKSRVIDNPTEALSVAVEEGLAWRKKGC LRLGNHGSPSAPSQSSAVNMALHR SQPWFHHRISRDEAQRLLIRQGPVDGVFLVRDSQ SNPRTFVLSMSHGQKIKHYIIPV EDDGELFHTLDDGHTKFTDLIQLVEFYQLNRGVL PCKLKHYCARMV"

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L2 ANSWER 99 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF329696 GenBank (R)  
GenBank ACC. NO. (GBN): AF329696  
GenBank VERSION (VER): AF329696.1 GI:13161041  
CAS REGISTRY NO. (RN): 325452-27-5  
SEQUENCE LENGTH (SQL): 3815  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Primates  
DATE (DATE): 14 May 2001  
DEFINITION (DEF): Homo sapiens tankyrase 2 mRNA, complete cds.  
SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo  
NUCLEIC ACID COUNT (NA): 1120 a 788 c 924 g 983 t  
REFERENCE: 1 (bases 1 to 3815)  
AUTHOR (AU): Lyons,R.J.; Deane,R.; Lynch,D.K.; Ye,Z.S.;  
Sanderson,G.M.; Eyre,H.J.; Sutherland,G.R.; Daly,R.J.  
TITLE (TI): Identification of a novel human tankyrase through its  
interaction with the adaptor protein \*\*\*Grb14\*\*\*  
JOURNAL (SO): J. Biol. Chem., 276 (20), 17172-17180 (2001)  
OTHER SOURCE (OS): CA 135:118599  
REFERENCE: 2 (bases 1 to 3815)  
AUTHOR (AU): Lyons,R.J.; Deane,R.; Lynch,D.K.; Ye,Z.-S.J.;  
Sanderson,G.M.; Eyre,H.J.; Sutherland,G.R.; Daly,R.J.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (17-DEC-2000) Cancer Research, Garvan  
Institute of Medical Research, 384 Victoria St.,  
Sydney, NSW 2010, Australia

FEATURES (FEAT):  
Feature Key Location Qualifier  
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2761	agattttagc	ataactcaat	tcgtaaggaa	tcttggaact	gagcacctaa	tggataatatt
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2881 gattggaatc aatgcttatg gacataggca caaactaatt aaaggagtcg agagacttat  
 2941 ctccggacaa caaggtctta acccatatgt aactttgaac acctctggta gtggaacaat  
 3001 tcttatagat ctgtctcctg atgataaaga gtttcagtct gtggaggaag agatgcaaag  
 3061 tacagttcga gagcacagag atggagggtca tgcagggtga atcttcaaca gatacaatat  
 3121 tctcaagatt cagaagggtt gtaacaagaa actatgggaa agatacactc accggagaaa  
 3181 agaagtttct gaagaaaacc acaaccatgc caatgaacga atgctatttc atgggtctcc  
 3241 ttttgtgaat gcaattatcc acaaaggctt tgatgaaagg catgcgtaca taggtggtat  
 3301 gtttggagct ggcatattat ttgctgaaaa ctcttccaaa agcaatcaat atgtatatgg  
 3361 aattggagga ggtactgggt gtccagttca caaagacaga tcttggtaca ttgcccacag  
 3421 gcagctgctc ttttgccggg taaccttggg aaagtcttct ctgcagttca gtgcaatgaa  
 3481 aatggcacat tctcctccag gtcactcact agtactggt aggccagtg taaatggcct  
 3541 agcattagct gaatatgtta ttacagagg agaacaggct tatcctgagt atttaattac  
 3601 ttaccagatt atgaggcctg aaggtatggt cgaatggataa atagttattt taagaaacta  
 3661 attccactga acctaaaatc atcaaagcag cagtggcctc tacgtttttac tcctttgctg  
 3721 aaaaaaaatc atcttgccca caggcctgtg gcaaaaggat aaaaatgtga acgaagttaa  
 3781 acattctgac ttgataaagc tttataatg tacag

L2 ANSWER 100 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB560608 GenBank (R)  
 GenBank ACC. NO. (GBN): BB560608  
 GenBank VERSION (VER): BB560608.1 GI:9646974  
 CAS REGISTRY NO. (RN): 284994-84-9  
 SEQUENCE LENGTH (SQL): 323  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 1 Aug 2000  
 DEFINITION (DEF): BB560608 RIKEN full-length enriched, 10 days neonate  
 olfactory brain Mus musculus cDNA clone E530113B02 3'  
 similar to AF076619 Rattus norvegicus molecular adapter  
 rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 92 a 89 c 53 g 89 t

COMMENT:

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 URL: <http://genome.gsc.riken.go.jp/>  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
 further details.

REFERENCE:

1 (bases 1 to 323)  
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;

Yamanaka,I., Yano,R.H; Yasunishi,A.; Yokota,T.;  
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;  
Hayashizaki,Y.  
TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)  
JOURNAL (SO): Unpublished (2000)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..323	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E530113B02" /clone-lib="RIKEN full-length enriched, 10 days neonate olfactory brain" /tissue-type="olfactory brain" /dev-stage="10 days neonate" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

# SEQUENCE (SEQ):

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1 gctgttctcc actttttccc ccggtcgatt ttacccctc tactgggggt tccttcccc
61 ctacctgcta ccctcacttt cccccgatgg ctgttcaccc ccactttctt tcactcgta
121 cactacagaa gaagaagcat ccaaaggagt atgataacag agagagagag agatcaccag
181 gctgaaaacc catcatggtg gaaaggagat ttaccttcg ggttaccaa acaaataggt
241 cacacattgc aaatttagtg aaacttggat tcctattaca ctcatgactt taaatttatt
301 agttaaatt aaacctttt aac

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L2 ANSWER 101 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB560607 GenBank (R)  
GenBank ACC. NO. (GBN): BB560607  
GenBank VERSION (VER): BB560607.1 GI:9646973  
CAS REGISTRY NO. (RN): 284994-83-8  
SEQUENCE LENGTH (SQL): 313  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 1 Aug 2000  
DEFINITION (DEF): BB560607 RIKEN full-length enriched, 10 days neonate  
olfactory brain Mus musculus cDNA clone E530113B01 3'  
similar to AF076619 Rattus norvegicus molecular adapter  
rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE:  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 100 a 76 c 54 g 83 t  
COMMENT:  
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URL:http://genome.gsc.riken.go.jp/  
Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki  
,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.  
Thermostabilization and thermoactivation of thermolabile enzymes by  
trehalose and its application for the synthesis of full length  
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,  
Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki  
,Y. and Hayashizaki,Y.  
Automated filtration-based high-throughput plasmid preparation  
system. Genome Res. 9 (5), 463-470 (1999)  
Carninci,P. and Hayashizaki,Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
Please visit our web site (http://genome.rtc.riken.go.jp) for  
further details.

REFERENCE: 1 (bases 1 to 313)  
AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;  
Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.;  
Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.;  
Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.;  
Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.;  
Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.;  
Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.;  
Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y;  
Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.;  
Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.;  
Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.;  
Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;  
Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;  
Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.;  
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;  
Hayashizaki,Y.  
TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)  
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):  
Feature Key Location Qualifier  
=====+=====+=====

source	1..313	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E530113B01" /clone-lib="RIKEN full-length enriched, 10 days neonate olfactory brain" /tissue-type="olfactory brain" /dev-stage="10 days neonate" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC
--------	--------	---

CCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

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1 ccacctatat ccagttggtg gacttccacc agcttaacag gcggtccttc cttcccacct
61 gaaccacact tctgttagga cgctgttca cccctcctct gtttcactct ttacaccaca
121 gaagaagaag gattctaagg agaagatgca gagagagaga gagagatcac aaggctgcaa
181 acatatcatg ctgaaaagga gatttcacct gcggggttacc aaaaaaata ggtcacacat
241 tccaaattag tgcaaacttg gattcctatt acactcatga ctttaaattt attagttaaa
301 attaaacctt att
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L2 ANSWER 102 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB559554 GenBank (R)  
GenBank ACC. NO. (GBN): BB559554  
GenBank VERSION (VER): BB559554.1 GI:9645920  
CAS REGISTRY NO. (RN): 284984-30-1  
SEQUENCE LENGTH (SQL): 334  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 1 Aug 2000  
DEFINITION (DEF): BB559554 RIKEN full-length enriched, 2 days pregnant adult female ovary Mus musculus cDNA clone E330039G15 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 117 a 90 c 41 g 86 t

COMMENT:

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Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.go.jp,  
URL:<http://genome.gsc.riken.go.jp/>  
Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.  
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.  
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
Carninci,P. and Hayashizaki,Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 334)  
AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.

TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..334	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E330039G15" /clone-lib="RIKEN full-length enriched, 2 days pregnant adult female ovary" /sex="female" /tissue-type="ovary" /dev-stage="2 days pregnant adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCCAACTCGAGTTTTTTTT TTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

## SEQUENCE (SEQ):

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1 gtacttcaca tacatcatcc acctctagac tttcaccaat ttccacaccc ctttccttcc
61 ctttccacct gaaccaccac tgtccactga ttccccctct cccaacttt ctctcacttc
121 ctacactaca gaagaagaag gatccaaagg agaatcatta gagagagaga gagagatcac
181 aaggctgaaa accaatcatg gtgaaaagaa gatttcacct ccggcttaca aaaacaaata
241 ggtcacacat tccaaattag tgaaaacttg gatttcctatt acactcatga ctttaaatatt
301 attagttaaa attaaacctt attaaaaaaa tagg

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L2 ANSWER 103 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB559080 GenBank (R)  
GenBank ACC. NO. (GBN): BB559080  
GenBank VERSION (VER): BB559080.1 GI:9645446  
CAS REGISTRY NO. (RN): 284979-54-0  
SEQUENCE LENGTH (SQL): 319  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 1 Aug 2000  
DEFINITION (DEF): BB559080 RIKEN full-length enriched, 2 days pregnant  
adult female ovary Mus musculus cDNA clone E330037E03  
3' similar to AF076619 Rattus norvegicus molecular  
adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

## SOURCE:

ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 108 a 62 c 62 g 87 t

## COMMENT:

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Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,

URL: <http://genome.gsc.riken.go.jp/>

Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)

Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

#### REFERENCE:

1 (bases 1 to 319)

#### AUTHOR (AU):

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.

#### TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

#### JOURNAL (SO):

Unpublished (2000)

#### FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..319	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E330037E03" /clone-lib="RIKEN full-length enriched, 2 days pregnant adult female ovary" /sex="female" /tissue-type="ovary" /dev-stage="2 days pregnant adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a

SEQUENCE (SEQ):

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1  tgtttacaga cctgatccag ccgctggaat tcaacctcct taactggggg tccttccttc
61  catgctgaag cattattctg ctaggacggc tgttatcccc aactttgttt cactcgtcac
121 actacagtag aagaagtag caaaggagaa tgattagaga gagagagaga gatcacaagg
181 ctgaaaacaa atcatggtga aaagaagatt tcacctgcgg gttacaaaaa aaaatagggtc
241 acacattgca aattagttaa aacttggatt cctattacac tcatgacttt aaatttatta
301 gttaaaatta aaccttatt
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L2 ANSWER 104 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB558470 GenBank (R)  
GenBank ACC. NO. (GBN): BB558470  
GenBank VERSION (VER): BB558470.1 GI:9644836  
CAS REGISTRY NO. (RN): 284973-44-0  
SEQUENCE LENGTH (SQL): 250  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 1 Aug 2000  
DEFINITION (DEF): BB558470 RIKEN full-length enriched, 2 days pregnant  
adult female ovary Mus musculus cDNA clone E330034C06  
3' similar to AF076619 Rattus norvegicus molecular  
adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE:  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 74 a 54 c 49 g 73 t  
COMMENT:

Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center(GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
Thermotabilization and thermoactivation of thermolabile enzymes by  
trehalose and its application for the synthesis of full length  
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
Y. and Hayashizaki, Y.  
Automated filtration-based high-throughput plasmid preparation  
system. Genome Res. 9 (5), 463-470 (1999)  
Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

REFERENCE: 1 (bases 1 to 250)  
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
Hayashizaki, Y.  
TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
JOURNAL (SO): Unpublished (2000)

## FEATURES (FEAT):

Feature Key	Location	qualifier
source	1..250	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E330034C06" /clone-lib="RIKEN full-length enriched, 2 days pregnant adult female ovary" /sex="female" /tissue-type="ovary" /dev-stage="2 days pregnant adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

## SEQUENCE (SEQ):

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1  ctttagcagc tgaaatgaat gctgacagat cccctacaca gatactgcag gtgttttttaa
61  gctccagcac gtatcctgaa atccatggct tcttacatgc aaaggaacag ggaaagaagt
121 cttggaaaaa agcttacttt tttctcagaa gatctggcct atattttttt actaaaggca
181 catccaagga accacggcat ttgcagcttt tcagtgaatt cagcactagt cacgtttata
241 tgtcactggc

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L2 ANSWER 105 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB519321 GenBank (R)  
 GenBank ACC. NO. (GBN): BB519321  
 GenBank VERSION (VER): BB519321.1 GI:9570779  
 CAS REGISTRY NO. (RN): 284222-57-7  
 SEQUENCE LENGTH (SQL): 319  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 28 Jul 2000  
 DEFINITION (DEF): BB519321 RIKEN full-length enriched, 16 days neonate  
 heart Mus musculus cDNA clone D830035H10 3' similar to  
 AF076619 Rattus norvegicus molecular adapter rGrb14 (  
 \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 106 a 71 c 58 g 84 t

## COMMENT:

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 Laboratory for Genome Exploration Research Group, RIKEN Genomic  
 Sciences Center(GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
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 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,

URL:<http://genome.gsc.riken.go.jp/>  
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci,P. and Hayashizaki,Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE: 1 (bases 1 to 319)  
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)  
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..319	/organism="Mus musculus" /db-xref="taxon:10090" /clone="D830035H10" /clone-lib="RIKEN full-length enriched, 16 days neonate heart" /tissue-type="heart" /dev-stage="16 days neonate" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):  
 1 acttcacaga cctccttcca gctcgtggct tctaccagct caacaggggc tccttcctc

61 caagctgaac cttacttttg ctaggatggc cgtttaccac aactttgtct cactcgttac  
 121 actacagaag aagaaggatc cataggagaa tgatcagaga gagagagaga gatcactagg  
 181 ctgaaaacaa atcatggtga aaagaagatt tcacctgcgg gttacaaaaa ataataggtc  
 241 acacattgca aattagttaa aacttggatt cctattacac tcatgacttt aaatttatta  
 301 gttaaaatta aaccttatt

L2 ANSWER 106 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB360808 GenBank (R)  
 GenBank ACC. NO. (GBN): BB360808  
 GenBank VERSION (VER): BB360808.1 GI:9072636  
 CAS REGISTRY NO. (RN): 279052-46-9  
 SEQUENCE LENGTH (SQL): 231  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 12 Jul 2000  
 DEFINITION (DEF): BB360808 RIKEN full-length enriched, adult male corpus striatum Mus musculus cDNA clone C030049M20 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
 SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 87 a 45 c 38 g 61 t  
 COMMENT:

Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute  
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 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
 Please visit our web site (http://genome.rtc.riken.go.jp) for further details.

REFERENCE: 1 (bases 1 to 231)  
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):  

Feature Key	Location	Qualifier
source	1..231	/organism="Mus musculus" /strain="C57BL/6J"



/db-xref="taxon:10090"  
 /clone="C030049M20"  
 /clone-lib="RIKEN full-length  
 enriched, adult male corpus  
 striatum"  
 /sex="male"  
 /tissue-type="corpus striatum"  
 /dev-stage="adult"  
 /lab-host="DH10B"  
 /note="Site-1: SalI; Site-2:  
 BamHI; cDNA library was prepared  
 and sequenced in Mouse Genome  
 Encyclopedia Project of Genome  
 Exploration Research Group in  
 Riken Genomic Sciences Center and  
 Genome Science Laboratory in  
 RIKEN. Division of Experimental  
 Animal Research in Riken  
 contributed to prepare mouse  
 tissues. 1st strand cDNA was  
 primed with a primer [5'  
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT  
 TTTTTTTVN 3'], cDNA was prepared  
 by using trehalose  
 thermo-activated reverse  
 transcriptase and subsequently  
 enriched for full-length by  
 cap-trapper. cDNA went through one  
 round of normalization to Rot =  
 10.0 and subtraction to Rot =  
 185.0. Second strand cDNA was  
 prepared with the primer adapter  
 of sequence [5'  
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC  
 CCCCCCCCCC 3']. cDNA was cloned  
 into the XhoI and BamHI sites.  
 Vector: a modified pBluescript  
 KS(+) after bulk excision from  
 Lambda FLC I. Cloning sites, 5'  
 end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

1 cctgttcagc ccaactctgt ctcaactccct acactacaga agaagaagga ttcacaggtg  
 61 tatgattaga gagagaaaga gagatcacaa ggctgaaaac aaatcatggt gtaaagaaga  
 121 tttcacctgc ggcttaccaa aaaaaatagg tcacacattc caaattagtg aaaacttgga  
 181 ttcctattac actcatgact ttaaatttat tagttaaaat taaaccttat t

L2 ANSWER 107 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB360354 GenBank (R)  
 GenBank ACC. NO. (GBN): BB360354  
 GenBank VERSION (VER): BB360354.1 GI:9072182  
 CAS REGISTRY NO. (RN): 279047-92-6  
 SEQUENCE LENGTH (SQL): 284  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 12 Jul 2000  
 DEFINITION (DEF): BB360354 RIKEN full-length enriched, adult male corpus  
 striatum Mus musculus cDNA clone C030046J22 3' similar  
 to AF076619 Rattus norvegicus molecular adapter rGrb14  
 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
 SOURCE:  
 ORGANISM (ORGN): house mouse.  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 103 a 53 c 54 g 74 t  
 COMMENT:

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 Laboratory for Genome Exploration Research Group, RIKEN Genomic  
 Sciences Center(GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,

URL:<http://genome.gsc.riken.go.jp/>  
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci,P. and Hayashizaki,Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE: 1 (bases 1 to 284)  
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)  
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..284	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="C030046J22" /clone-lib="RIKEN full-length enriched, adult male corpus striatum" /sex="male" /tissue-type="corpus striatum" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: Sali; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 185.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCC 3']. cDNA was cloned

into the XhoI and BamHI sites.  
Vector: a modified pBluescript  
KS(+) after bulk excision from  
Lambda FLC I. Cloning sites, 5'  
end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

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1 agctcaacag ggggggtcctt cctttccaagc tgaaccatca ctgtgctagg atggctgttt
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121 agagagagag agagagatca caaggctgaa aacaaatcat ggtgaaaaga agatttcacc
181 tccgggttac aaaaaaaaaat aggtcacaca ttgcaaatta gtgaaaactt ggattcctat
241 tacactcatg actttaaatt tattagttaa aattaaacct tatt
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L2 ANSWER 108 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB359872 GenBank (R)  
GenBank ACC. NO. (GBN): BB359872  
GenBank VERSION (VER): BB359872.1 GI:9071700  
CAS REGISTRY NO. (RN): 279043-10-6  
SEQUENCE LENGTH (SQL): 245  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 12 Jul 2000  
DEFINITION (DEF): BB359872 RIKEN full-length enriched, adult male corpus  
striatum Mus musculus cDNA clone C030043M21 3' similar  
to AF076619 Rattus norvegicus molecular adapter rGrb14  
( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 92 a 55 c 40 g 58 t  
COMMENT:

Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center(GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
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trehalose and its application for the synthesis of full length  
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
Y. and Hayashizaki, Y.  
Automated filtration-based high-throughput plasmid preparation  
system. Genome Res. 9 (5), 463-470 (1999)  
Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

REFERENCE: 1 (bases 1 to 245)  
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;  
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;  
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
Hayashizaki, Y.  
TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..245	<pre>/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="C030043M21" /clone-lib="RIKEN full-length enriched, adult male corpus striatum" /sex="male" /tissue-type="corpus striatum" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 185.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"</pre>

SEQUENCE (SEQ):

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1 accatccac gacgcccgt caccgccact gtgtttcact cgatacacca cagaagaaga
61 aggatcccaa ggagaatgat tagagagaga gagagagatc acaagcctga aaacaaatca
121 tgctgaaaag aagatttcac ctccgggtta caaaaaaaaa tagttcacac attccaaatt
181 agtggaaact tggattccta ttacactctt gactttaaat ttattagta aaattaaacc
241 ttatt
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L2 ANSWER 109 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB319216 GenBank (R)  
GenBank ACC. NO. (GBN): BB319216  
GenBank VERSION (VER): BB319216.1 GI:9026251  
CAS REGISTRY NO. (RN): 278502-24-2  
SEQUENCE LENGTH (SQL): 311  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 11 Jul 2000  
DEFINITION (DEF): BB319216 RIKEN full-length enriched, adult male corpora  
quadrigemina Mus musculus cDNA clone B230379D24 3'  
similar to AF076619 Rattus norvegicus molecular adapter  
rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 89 a 69 c 61 g 92 t  
COMMENT:

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 Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)

Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for  
 further details.

#### REFERENCE:

AUTHOR (AU):

1 (bases 1 to 311)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

#### FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..311	/organism="Mus musculus" /db-xref="taxon:10090" /clone="B230379D24" /clone-lib="RIKEN full-length enriched, adult male corpora quadrigemina" /sex="male" /tissue-type="corpora quadrigemina" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by

cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

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1 tatcccaaat tcgaattttt taagaacccc atgtatttct ttccagagca catggtgtct
61 ttgacagctg aatgaatgg tgacagatcc cctacacagg tactgcaggt gtttttaagc
121 tccagcacgt atcctgaaat ccacggcttc ttacatgcaa aggaacaggg aaagaagtct
181 tggaaaaaag cttacttttt tctcagaaga tctggctcat atttttctac taaaggcaca
241 tccaaggaac cacggcattt gcagcttttc agtgaattca gcactagtca cgtttatatg
301 tcactggcag g
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L2 ANSWER 110 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB283308 GenBank (R)  
GenBank ACC. NO. (GBN): BB283308  
GenBank VERSION (VER): BB283308.1 GI:8983757  
CAS REGISTRY NO. (RN): 278048-97-8  
SEQUENCE LENGTH (SQL): 503  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 1 Aug 2000  
DEFINITION (DEF): BB283308 RIKEN full-length enriched, adult retina Mus musculus cDNA clone A930101L21 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (\*\*\*Grb14\*\*\*) mRNA, mRNA sequence.

SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 162 a 97 c 113 g 131 t

COMMENT:

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Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 503)  
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;

Sogabe,Y.; Sugahara,Y., Suzuki,H.,; Suzuki,H.;  
 Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;  
 Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;  
 Yamanaka,I., Yano,R.H; Yasunishi,A.; Yokota,T.;  
 Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;  
 Hayashizaki,Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)  
 JOURNAL (SO): Unpublished (2000)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..503	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A930101L21" /clone-lib="RIKEN full-length enriched, adult retina" /tissue-type="retina" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5'GAGAGAGAGATTCTCGAGTTAATTAAATTAA TCCCCCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. ~Retina RNA was provided by Stefano Gustincich, Department of Neurobiology, Harvard Medical School, 220 Longwood Ave., Boston, MA02115, USA, whose assistance we gratefully acknowledge

# SEQUENCE (SEQ):

```

1 aggctcggcc gctgattcatt ccgcggggcc tctggatgga gttttcttgt tacggatagt
61 tcagagtaac cccagaactt ttgtactgtc aatgagtcac ggacaaaaga taaaacacta
121 tcaaattata cccgtagaag atgatggtga gctgttccat actctggatg atggccatac
181 gaagttcaca cacctcatcc agctggtgga gttctaccag ctcaacaggg gggctccttc
241 ttgcaagctg aagcattact gtgctaggat ggctgtttag ccaaactgtt tgtcactcgt
301 tacactacag aagaagaagg atgcaaagga gaatgattag agagagagag agagatcaca
361 aggctgaaaa caaatcatgg tgaaaagaag atttcacctg cgggttacaa aaaaaaatag
421 gtcacacatt ccaaattagt gaaaacttgg attcctatta cactcatgac tttaaattta
481 gttagttaaa attaaacctt att

```

L2 ANSWER 111 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB282445 GenBank (R)  
 GenBank ACC. NO. (GBN): BB282445  
 GenBank VERSION (VER): BB282445.1 GI:8982894  
 CAS REGISTRY NO. (RN): 278040-34-9  
 SEQUENCE LENGTH (SQL): 281  
 MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 1 Aug 2000  
 DEFINITION (DEF): BB282445 RIKEN full-length enriched, adult retina Mus  
 musculus cDNA clone A930037N11 3' similar to AF076619  
 Rattus norvegicus molecular adapter rGrb14 (  
 \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
 SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 92 a 86 c 37 g 66 t

COMMENT:

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 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: <http://genome.gsc.riken.go.jp/>  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
 further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 281)  
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.

TITLE (TI):

JOURNAL (SO):

RIKEN Mouse ESTs (Konno, H., et al.)  
 Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..281	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A930037N11" /clone-lib="RIKEN full-length enriched, adult retina" /tissue-type="retina" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental



Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5'GAGAGAGAGATTCTCGAGTTAATTAAATTAA TCCCCCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. ~Retina RNA was provided by Stefano Gustinich, Department of Neurobiology, Harvard Medical School, 220 Longwood Ave., Boston, MA02115, USA, whose assistance we gratefully acknowledge

SEQUENCE (SEQ):

```

1 ccgtatccct tccatcccca cctgatagta tccctcccca tcccacgcct cccctcgccc
61 tacatccccc tcacttcact acaccacaga gaagcaggat cccccccgac aatcactaga
121 gagagagaga gagattacaa ccctgaaaac aaatcatggt gacaagaaga ttttaccccc
181 gggttacaaa agaaaatagc tcacacattg caaattagtg aaaacttgga ttctattac
241 attcatgact ttaaatttat tagttaaaat taaaccttac t

```

L2 ANSWER 112 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB191006 GenBank (R)  
 GenBank ACC. NO. (GBN): BB191006  
 GenBank VERSION (VER): BB191006.1 GI:8851625  
 CAS REGISTRY NO. (RN): 276734-11-3  
 SEQUENCE LENGTH (SQL): 276  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 30 Jun 2000  
 DEFINITION (DEF): BB191006 RIKEN full-length enriched, adult male spinal cord Mus musculus cDNA clone A330065D15 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (\*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 97 a 62 c 45 g 72 t

COMMENT:

Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute  
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 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 276)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;  
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..276	<pre>/organism="Mus musculus" /db-xref="taxon:10090" /clone="A330065D15" /clone-lib="RIKEN full-length enriched, adult male spinal cord" /sex="male" /tissue-type="spinal cord" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."</pre>

SEQUENCE (SEQ):

```
1 cctgggatcc ttcccttcaa gctgcaacat cactttgcta ggacgcccgt taacccaac
61 tctgtttcac tcattacacc acagaaggag aaggatccaa aggagaatga ttagagagag
121 agagagagat cacaaggctg aaaacaattc atcgtgaaaa gcagatttca cctccggctt
181 accaaaataa atagttcaca cattccaaat tagtgaaaac ttggattcct attacactca
241 tgactttaaa ttattagatt aaaattaaac cttatt
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LOCUS (LOC): BB187252 GenBank (R)  
 GenBank ACC. NO. (GBN): BB187252  
 GenBank VERSION (VER): BB187252.1 GI:8847823  
 CAS REGISTRY NO. (RN): 276657-85-3  
 SEQUENCE LENGTH (SQL): 289  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 30 Jun 2000  
 DEFINITION (DEF): BB187252 RIKEN full-length enriched, adult male spinal  
 cord Mus musculus cDNA clone A330041E09 3' similar to  
 AF076619 Rattus norvegicus molecular adapter rGrb14 (  
 \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 105 a 51 c 58 g 75 t

# COMMENT:

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 Sciences Center(GSC), Yokohama Institute  
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 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (http://genome.rtc.riken.go.jp) for  
 further details.

# REFERENCE:

AUTHOR (AU): 1 (bases 1 to 289)  
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
 JOURNAL (SO): Unpublished (2000)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..289	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A330041E09" /clone-lib="RIKEN full-length enriched, adult male spinal cord" /sex="male" /tissue-type="spinal cord" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2:

BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "

# SEQUENCE (SEQ):

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1 ttaccagctc aaaagggggc tccttccttg caagctgaac cataactgtg ctaggatggc
61 tgttttagcct tactctgttt cactcgttac actacagaag aagaaggatg caaaggagaa
121 tgatcagaga gagagagaga gatcacaagg ctgaaaacaa atcatggtga aaagaagatt
181 tcacctgcgg gttacaaaaa aaaataggtc acacattgca aattagttaa aacttggatt
241 cctattacac tcatgacttt aaatttatta gttaaaatta aaccttatt

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L2 ANSWER 114 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB184777 GenBank (R)  
 GenBank ACC. NO. (GBN): BB184777  
 GenBank VERSION (VER): BB184777.1 GI:8845348  
 CAS REGISTRY NO. (RN): 276633-09-1  
 SEQUENCE LENGTH (SQL): 215  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 30 Jun 2000  
 DEFINITION (DEF): BB184777 RIKEN full-length enriched, adult male spinal cord Mus musculus cDNA clone A330015N04 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (\*\*\*Grb14\*\*\*) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 87 a 32 c 38 g 58 t

## COMMENT:

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 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 215)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..215	<pre>/organism="Mus musculus" /db-xref="taxon:10090" /clone="A330015N04" /clone-lib="RIKEN full-length enriched, adult male spinal cord" /sex="male" /tissue-type="spinal cord" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."</pre>

SEQUENCE (SEQ):

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1 ttgtttcatt ccttacacca cagaagaaga acgatccaaa ggagtatgat tagagagaga
61 gagagagatc acaaggctga aaacaaatca tggtgaaaag aagatttcac ctgcgggtta
121 caaaaaaaaa taggtcacac attgcaaat agtgaaaact tggattccta ttacattcat
181 gactttaaat ttattagtta aaattaaacc ttatt
```

L2 ANSWER 115 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC):

BB173204

GenBank (R)

GenBank ACC. NO. (GBN): BB173204  
 GenBank VERSION (VER): BB173204.1 GI:8832287  
 CAS REGISTRY NO. (RN): 276506-98-0  
 SEQUENCE LENGTH (SQL): 282  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 29 Jun 2000  
 DEFINITION (DEF): BB173204 RIKEN full-length enriched, adult male  
 hypothalamus Mus musculus cDNA clone A230044K20 3'  
 similar to AF076619 Rattus norvegicus molecular adapter  
 rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE:  
 ORGANISM (ORGN): house mouse.  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 98 a 55 c 55 g 74 t

COMMENT:

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 The Institute of Physical and Chemical Research (RIKEN)  
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 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (http://genome.rtc.riken.go.jp) for  
 further details.

REFERENCE:

AUTHOR (AU): 1 (bases 1 to 282)  
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..282	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A230044K20" /clone-lib="RIKEN full-length enriched, adult male hypothalamus" /sex="male" /tissue-type="hypothalamus" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: Sali; Site-2: BamHI; cDNA library was prepared"

and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTT VN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "

SEQUENCE (SEQ):

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1 gctcaacagg gggtccttcc ttcccagctg aagcattact gtgctaggat gcctgtttac
61 cctaactctg tgtcactcgt tacactacag tagaagaagg atgcaaagga gaatgatcag
121 agagagagag agagatcaca agcctgaaaa caaatcatgg tgtaaagaag atttcacctg
181 cggggttacca aaaaaaatag gtcacacatt ccaaattagt gaaaacttgg attcctatta
241 cactcatgac tttaaattta ttagttaaaa ttaaacctta tt

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L2 ANSWER 116 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB170892 GenBank (R)  
 GenBank ACC. NO. (GBN): BB170892  
 GenBank VERSION (VER): BB170892.1 GI:8829975  
 CAS REGISTRY NO. (RN): 276483-86-4  
 SEQUENCE LENGTH (SQL): 259  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 29 Jun 2000  
 DEFINITION (DEF): BB170892 RIKEN full-length enriched, adult male hypothalamus *Mus musculus* cDNA clone A230022B15 3' similar to AF076619 *Rattus norvegicus* molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
 SOURCE: house mouse.  
 ORGANISM (ORGN): *Mus musculus*  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; *Mus*  
 NUCLEIC ACID COUNT (NA): 79 a 55 c 45 g 80 t  
 COMMENT:

Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute  
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 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: <http://genome.gsc.riken.go.jp/>  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermotabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation system. *Genome Res.* 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 259)

Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;  
Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.;  
Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.;  
Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.;  
Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.;  
Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.;  
Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.;  
Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y;  
Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.;  
Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.;  
Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.;  
Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;  
Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;  
Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.;  
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;  
Hayashizaki,Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno,H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..259	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A230022B15" /clone-lib="RIKEN full-length enriched, adult male hypothalamus" /sex="male" /tissue-type="hypothalamus" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "

SEQUENCE (SEQ):

1 cctgatatta tacacctaaa atgcatgcag acagatccct tacacagata ctgcacgtgt  
61 tttaagctc cagcacctat cctgaaatcc atggcttctt tcatccaaag gaacagggaa  
121 agaattattg gaaaaaagct tacttttttt tcagaagatt tggcttatat tttttacta  
181 aaggcacatc caaggaacca tggcatttgc agcttttcag tgaattcagc actagtcacg  
241 tttatatgtc actggcagg



GenBank ACC. NO. (GBN): BB124451  
 GenBank VERSION (VER): BB124451.1 GI:8777019  
 CAS REGISTRY NO. (RN): 275947-71-2  
 SEQUENCE LENGTH (SQL): 312  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 27 Jun 2000  
 DEFINITION (DEF): BB124451 RIKEN full-length enriched, adult male urinary bladder *Mus musculus* cDNA clone 9530097N18 3' similar to AF076619 *Rattus norvegicus* molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): *Mus musculus*  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; *Mus*

NUCLEIC ACID COUNT (NA): 108 a 60 c 60 g 84 t

COMMENT:

Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute  
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 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
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 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: <http://genome.gsc.riken.go.jp/>  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation system. *Genome Res.* 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. *Methods Enzymol.* 303, 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU): 1 (bases 1 to 312)  
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..312	/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530097N18" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult" /lab-host="DH10B" /note="site-1: SalI; site-2:

BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTNN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```

1 gacttcatcc agcttgtgga gttttaccac ctctacaggg gggtccttcc ttgcaacctg
61 aagcttcact ttgctaggaa ggcaatttac cccaactgtc tgtcactcat tacactacag
121 aagaagaagg atcctaagga gaatgattag agagagagag agagatcaca aggctgaaaa
181 caaatcatgg tgaaaagaag atttcacctg cgggttacaa aaaaaaatag gtcacacatt
241 gctaattagt gaaaacttgg attcctatta cactcatgac tttaaattta ttagttaaaa
301 ttaaacctta tt

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L2 ANSWER 118 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB115268 GenBank (R)  
 GenBank ACC. NO. (GBN): BB115268  
 GenBank VERSION (VER): BB115268.1 GI:8767836  
 CAS REGISTRY NO. (RN): 275855-88-4  
 SEQUENCE LENGTH (SQL): 235  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 27 Jun 2000  
 DEFINITION (DEF): BB115268 RIKEN full-length enriched, adult male urinary bladder *Mus musculus* cDNA clone 9530049M14 3' similar to AF076619 *Rattus norvegicus* molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): *Mus musculus*  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; *Mus*

NUCLEIC ACID COUNT (NA): 89 a 39 c 45 g 62 t

COMMENT:

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 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation

system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 235)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..235	<p>/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530049M14" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."</p>

SEQUENCE (SEQ):

1 atggtctgtt atccctactg cgtctcactc gttacactac agaaggagaa ggattctaag  
61 gagaatgatc agagagagag agagagatca caaggctgaa aacaaatcat ggtgaaaaga  
121 agatttcacc tgcgggttac caaaaaaaaa taggtcacac attgcaaatt agtgaaaact  
181 tggattccta ttacactcat gactttaaat ttattagtta aaattaaacc ttatt

LOCUS (LOC): BB114126 GenBank (R)  
 GenBank ACC. NO. (GBN): BB114126  
 GenBank VERSION (VER): BB114126.1 GI:8766694  
 CAS REGISTRY NO. (RN): 275844-46-7  
 SEQUENCE LENGTH (SQL): 316  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 27 Jun 2000  
 DEFINITION (DEF): BB114126 RIKEN full-length enriched, adult male urinary bladder Mus musculus cDNA clone 9530044F23 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 110 a 67 c 55 g 84 t

COMMENT:

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 The Institute of Physical and Chemical Research (RIKEN)  
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 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (http://genome.rtc.riken.go.jp) for  
 further details.

REFERENCE: 1 (bases 1 to 316)  
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..316	/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530044F23" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult"

/lab-host="DH108"  
/note="Site-1: SalI; Site-2:  
BamHI; cDNA library was prepared  
and sequenced in Mouse Genome  
Encyclopedia Project of Genome  
Exploration Research Group in  
Riken Genomic Sciences Center and  
Genome Science Laboratory in  
RIKEN. Division of Experimental  
Animal Research in Riken  
contributed to prepare mouse  
tissues. 1st strand cDNA was  
primed with a primer [5'  
GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT  
TTTTTTTVN 3'], cDNA was prepared  
by using trehalose  
thermo-activated reverse  
transcriptase and subsequently  
enriched for full-length by  
cap-trapper. cDNA went through one  
round of normalization to Rot =  
20.0 and subtraction to Rot =  
370.0. Second strand cDNA was  
prepared with the primer adapter  
of sequence [5'  
GAGAGAGAGATTCTCGAGTTAATTAATTAATCC  
CCCCCCCCCCC 3']. cDNA was cleaved  
with XhoI and BamHI. Vector: a  
modified pBluescript KS(+) after  
bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```
1 ccacagacct tatccagcac gtcgatttca ccagctccat aggggggtcc ttccttgcca
61 cctgaaacat tacttttctt ggaagcctct ttacccaac ttgtttcac tccttacact
121 acagaagaag aaggatccaa aggagaatga tcagagagag agagagagat cactaggctg
181 aaaacaaatc atggtgaaaa gaagatttaa cctgcgggtt acaaaaaaaaa ataggtcaca
241 cattgcaaat tagtgaaaac ttggattcct attacactca tgactttaa tttattagtt
301 aaaattaaac cttatt
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L2 ANSWER 120 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB108361 GenBank (R)  
GenBank ACC. NO. (GBN): BB108361  
GenBank VERSION (VER): BB108361.1 GI:8760929  
CAS REGISTRY NO. (RN): 275745-24-9  
SEQUENCE LENGTH (SQL): 249  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 27 Jun 2000  
DEFINITION (DEF): BB108361 RIKEN full-length enriched, adult male urinary  
bladder Mus musculus cDNA clone 9530011B11 3' similar  
to AF076619 Rattus norvegicus molecular adapter rGrb14  
( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 102 a 44 c 39 g 64 t  
COMMENT:

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Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
Thermostabilization and thermoactivation of thermolabile enzymes by  
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cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki

,Y. and Hayashizaki,Y.  
Automated filtration-based high-throughput plasmid preparation  
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Carninci,P. and Hayashizaki,Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
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further details.

REFERENCE: 1 (bases 1 to 249)  
AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;  
Arakawa,T.; Carninci,P. ; Endo,T.; Fukuda,S.;  
Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.;  
Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.;  
Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.;  
Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.;  
Kurihara,C.; Kusakabe,M.; Matsuyama,T. ; Miki,R.;  
Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y;  
Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.;  
Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.;  
Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.;  
Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;  
Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;  
Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.;  
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;  
Hayashizaki,Y.  
TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)  
JOURNAL (SO): Unpublished (2000)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..249	/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530011B11" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

# SEQUENCE (SEQ):

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1 accctatatc tgcaaggatg actatittacc caaactatct ctactcatt acacaacaga
61 agaagaagga ttcaaaggag aatgattaga gagagagaga gatcacaagc ctgaaaacaa
121 atcatggtga aaagaagatt tcacctgcgg gttacaaaaa aaaataggtc acacattcca
181 aattagttaa aacttggtatt cctatttacac tcatgacttt aaatttatta gttaaaatta

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LOCUS (LOC): BB070600 GenBank (R)  
 GenBank ACC. NO. (GBN): BB070600  
 GenBank VERSION (VER): BB070600.1 GI:8580598  
 CAS REGISTRY NO. (RN): 273680-63-0  
 SEQUENCE LENGTH (SQL): 270  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 25 Jun 2000  
 DEFINITION (DEF): BB070600 RIKEN full-length enriched, 15 days embryo  
 male testis *Mus musculus* cDNA clone 8030491011 3'  
 similar to AF076619 *Rattus norvegicus* molecular adapter  
 rGrb14 ( \*\*\*\*Grb14\*\*\*\* ) mRNA, mRNA sequence.

SOURCE:  
 ORGANISM (ORGN): *Mus musculus*  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 93 a 57 c 45 g 75 t

## COMMENT:

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 The Institute of Physical and Chemical Research (RIKEN)  
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 Email: genome-res@gsc.riken.go.jp,  
 URL: <http://genome.gsc.riken.go.jp/>  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Thermostabilization and thermoactivation of thermolabile enzymes by  
 trehalose and its application for the synthesis of full length  
 cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. *Genome Res.* 9 (5), 463-470 (1999)  
 Carninci, P. and Hayashizaki, Y.  
 High-efficiency full-length cDNA cloning. *Methods Enzymol.* 303,  
 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
 further details.

## REFERENCE:

1 (bases 1 to 270)  
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;  
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;  
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
 Hayashizaki, Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
 JOURNAL (SO): Unpublished (2000)

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..270	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="8030491011" /clone-lib="RIKEN full-length enriched, 15 days embryo male

testis"  
 /sex="male"  
 /tissue-type="testis"  
 /dev-stage="15 days embryo"  
 /lab-host="DH10B"  
 /note="Site-1: SalI; Site-2:  
 BamHI; cDNA library was prepared  
 and sequenced in Mouse Genome  
 Encyclopedia Project of Genome  
 Exploration Research Group in  
 Riken Genomic Sciences Center and  
 Genome Science Laboratory in  
 RIKEN. Division of Experimental  
 Animal Research in Riken  
 contributed to prepare mouse  
 tissues. 1st strand cDNA was  
 primed with a primer [5'  
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT  
 TTTTTTNN 3'], cDNA was prepared  
 by using trehalose  
 thermo-activated reverse  
 transcriptase and subsequently  
 enriched for full-length by  
 cap-trapper. cDNA went through one  
 round of subtraction to Rot =  
 185.0 second strand cDNA was  
 prepared with the primer adapter  
 of sequence [5'  
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC  
 CCCCCCCCCC 3']. cDNA was cloned  
 into the XhoI and BamHI sites.  
 Vector: a modified pBluescript  
 KS(+) after bulk excision from  
 Lambda FLC I. Cloning sites, 5'  
 end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

```

1 ctccttcctt ccttgctgca ccaatcctat gtttgatgc ctgcttaacc caactgtgtg
61 tcactcataa cactacagca gtagatggat ccaatggagg atgattagag agagagagag
121 agatcacaag cctgcaaaca aatcatggtg aaaagaagat ttcacctccg gcttacaaaa
181 aaaaatagct cacacattgc aaattagtga aaacttggat tcctattaca ctcatgactt
241 taaattttatt agttaaatt aaaccttatt

```

L2 ANSWER 122 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB045416 GenBank (R)  
 GenBank ACC. NO. (GBN): BB045416  
 GenBank VERSION (VER): BB045416.1 GI:8451802  
 CAS REGISTRY NO. (RN): 272392-50-4  
 SEQUENCE LENGTH (SQL): 323  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 23 Jun 2000  
 DEFINITION (DEF): BB045416 RIKEN full-length enriched, 13 days embryo  
 male testis Mus musculus cDNA clone 6030495A12 3'  
 similar to AF076619 Rattus norvegicus molecular adapter  
 rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
 SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 113 a 63 c 59 g 88 t  
 COMMENT:

Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic  
 Sciences Center(GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki  
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
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trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.  
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 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 323)

AUTHOR (AU):

Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P. ; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T. ; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; ; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno,H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..323	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6030495A12" /clone-lib="RIKEN full-length enriched, 13 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTT VN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5'

end: SalI; 3' end: BamHI."

SEQUENCE (SEQ):

```
1 attcccagtt ctgagacctt atccagctcc ggattacacc acttcacagg gggttccttc
61 cttccaaact gaagcattat tgtccttagga tggctgttta gccaaactct gtttcaatcg
121 ttactactaca gaagaagaag gatccaaagg agaattgatta gagagagaga gagagatcac
181 aaggctgtaa acaaatcatg gtgaaaagaa gatttcacct gcgggttaca aaaaaaata
241 ggtcacacat tgcaaattag tgaaaacttg gattcctatt acatcatga ctttaaattt
301 attagttaaa attaaacctt att
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L2 ANSWER 123 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB042697 GenBank (R)  
GenBank ACC. NO. (GBN): BB042697  
GenBank VERSION (VER): BB042697.1 GI:8449083  
CAS REGISTRY NO. (RN): 272365-31-8  
SEQUENCE LENGTH (SQL): 289  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 23 Jun 2000  
DEFINITION (DEF): BB042697 RIKEN full-length enriched, 13 days embryo  
male testis Mus musculus cDNA clone 6030465G02 3'  
similar to AF076619 Rattus norvegicus molecular adapter  
rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE:  
ORGANISM (ORGN): house mouse.  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 104 a 62 c 51 g 72 t

COMMENT:

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Sciences Center(GSC), Yokohama Institute  
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1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,  
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
Thermostabilization and thermoactivation of thermolabile enzymes by  
trehalose and its application for the synthesis of full length  
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
Y. and Hayashizaki, Y.  
Automated filtration-based high-throughput plasmid preparation  
system. Genome Res. 9 (5), 463-470 (1999)  
Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

REFERENCE:

1 (bases 1 to 289)  
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;  
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;  
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;  
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;  
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;  
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;  
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;  
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;  
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;  
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;  
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;  
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;  
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;  
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;  
Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)  
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..289	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6030465G02" /clone-lib="RIKEN full-length enriched, 13 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

# SEQUENCE (SEQ):

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1 tctaccacta cacacggggt ctttcccccc aaccagcagc attactgtcc taggatcccc
61 gtttacccta actctgtgtc actcgttaca ccacagaaga agaaggatcc aaaggagaat
121 gattagagag agagagagag atcacaaggc tgaatacaaa tcatggtgaa aagaagattt
181 cacctgcggg ttacaaaaaa aaaataggtc acacattgca aattagttaa aacttggatt
241 cctattacac tcatgacttt aaatttatta gttaaaatta aaccttatt

```

L2 ANSWER 124 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB037605 GenBank (R)  
GenBank ACC. NO. (GBN): BB037605  
GenBank VERSION (VER): BB037605.1 GI:8443991  
CAS REGISTRY NO. (RN): 272314-39-3  
SEQUENCE LENGTH (SQL): 237  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 23 Jun 2000  
DEFINITION (DEF): BB037605 RIKEN full-length enriched, 13 days embryo  
forelimb Mus musculus cDNA clone 5930428012 3' similar  
to AF076619 Rattus norvegicus molecular adapter rGrb14  
( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE:  
ORGANISM (ORGN): house mouse.  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 84 a 50 c 40 g 63 t  
COMMENT:  
Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center(GSC), Yokohama Institute

The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>

Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)

Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 237)

AUTHOR (AU):

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..237	<p>/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="5930428012" /clone-lib="RIKEN full-length enriched, 13 days embryo forelimb" /sex="mixed" /tissue-type="forelimb" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was</p>

prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

# SEQUENCE (SEQ):

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1 ggattgctct tttcccaaac tgtacctcac tccttacacc acaggagcag aaggatcccc
61 cggagaatga ttagagagag agagagaaat cacatggctg aaaacaaatc ttggtgaaaa
121 ccagatttca cctccgggtt accaaaaaaa ataggtcaca ctttccaaat tagtgaaaac
181 ttggattcct attacactca tgactttaaa ttattagtt aaaattaaac cttattg

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L2 ANSWER 125 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF155647 GenBank (R)  
 GenBank ACC. NO. (GBN): AF155647  
 GenBank VERSION (VER): AF155647.1 GI:7262856  
 CAS REGISTRY NO. (RN): 259713-78-5  
 SEQUENCE LENGTH (SQL): 1978  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Rodents  
 DATE (DATE): 19 Mar 2000  
 DEFINITION (DEF): Mus musculus adaptor protein \*\*\*GRB14\*\*\* (\*\*\*Grb14\*\*\* ) mRNA, complete cds.  
 SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 559 a 491 c 492 g 436 t  
 REFERENCE: 1 (bases 1 to 1978)  
 AUTHOR (AU): Reilly,J.F.; Mickey,G.; Maher,P.A.  
 TITLE (TI): Association of fibroblast growth factor receptor 1 with the adaptor protein \*\*\*Grb14\*\*\* . Characterization of a new receptor binding partner  
 JOURNAL (SO): J. Biol. Chem., 275 (11), 7771-7778 (2000)  
 OTHER SOURCE (OS): CA 132:330035  
 REFERENCE: 2 (bases 1 to 1978)  
 AUTHOR (AU): Reilly,J.F.; Mickey,G.; Maher,P.A.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (01-JUN-1999) Cell Biology, The Scripps Research Institute, 10550 N. Torrey Pines Rd., CAL-3, La Jolla, CA 92037, USA

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1978	/organism="Mus musculus" /db-xref="taxon:10090" /cell-line="NIH/3T3"
5'UTR	1..122	/gene="Grb14"
gene	1..1978	/gene="Grb14"
CDS	123..1739	/gene="Grb14" /note="member of Grb7 family" /codon-start=1 /product="adaptor protein GRB14" /protein-id="AAF43996.1" /db-xref="GI:7262857" /translation="MTTSLQDGQSAAGRAGAQDS PLAVQVCRVAQKGDAQDPAQVPG LHALSPASDATLRGAIDRRKMKDLDVLEKPPPIP PFPELCCSPLTSVLSAGLFPRANS RKKQVIKVYSEDETSRALEVPSDITARDVCQLLI LKNHYVDDNSWTLFEHLSHIGLER TVEDHELPTVLSHWGVVEDNKLYLRKNYAKYEF FKNPMYFFPEHMSVFAAEMNGDRS PTQILQVFLSSSTYPEIHGFLHAKEQGKKSWKKA YFFLRRLSGLYFSTKGTSKEPRHLQ LFSEFSTSHVYMSLAGKKKHGAPTYPGFCLKPNK AGGPRDLKMLCAEEEQSRTCWVTA IRLLKDGMLYQNYMHPYQGRSACNSQSMSPMRS VSENSLVAMDFSGEKSRVIDNPTE

ALSVAVEEGLAWRKKGCLRLGNHGSPSAPSQSSA  
VNMAHRSQPWFHHRISRDEAQL  
IIRQGPVDGVFLVRDSQSNPRTFVLSMSHGQKIK  
HYQIIPVEDDGELFHTLDDGHTKF  
TDLIQLVEFYQLNRGVLPCKLKHYCARMV"  
/gene="Grb14"

3'UTR 1740..1978

SEQUENCE (SEQ):

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1 gggggccctgc caccgcacct gcaaggcgct cgctgcctgc aaccgctcgg ctctgctcgc
61 ccccagccct tcgtagcttt cgctcgcgg tcgatgactc cctagacccc tggcctacga
121 ccatgaccac gtccctgcaa gacgggcaga ggcgcgggg ccgggcaggc gccaggatt
181 cgccgctggc agtgcaggtg tgccgcgttg cccaggggcaa gggagacgcc caggaccggg
241 cgcaggtccc cggactgcac gcgctgtccc ccgcctccga tgcgaccctc cgcggtgcca
301 tagacaggag aaaaatgaaa gatctggatg ttctggaaaa gccaccattt cccaaccctt
361 ttcttgagct ctgctgctct ccgcttacat ctgtgctgtc agcaggcctg tttcccaggg
421 ccaattcaag gaagaagcag gtgattaaag tttacagcga ggatgaaacc agcagagcat
481 tagaggtgcc cagtgcacatc acagccccgag atgtttgcca gctgttgatc ctgaagaacc
541 actatgtgga cgacaacagc tggacccttt ttgagcacct atctcacata ggtttagaaa
601 gaaccgtaga ggaccacgag ctgcccaactg aagtgtgtgc tcactgggga gtggaagaag
661 acaataagct gtatcttaga aagaattatg ccaaattatg attttttaag aaccctaatgt
721 atttctttcc agagcacatg gtgtcttttg cagctgaaat gaatggtgac agatcccccta
781 cacagatact gcaggtgttt ttaagctcca gcacgtatcc tgaaatccat ggcttcttac
841 atgcaaagga acagggaaaag aagtcttgga aaaaagctta cttttttctc agaagatctg
901 gcttatattt ttctactaaa ggcacatcca aggaaccacg gcatttgtag cttttcagtg
961 aattcagcac tagtcacgtt tatatgtcac tggcaggaaa aaaaaaacac ggagcgcaa
1021 ctccctatgg attctgctta aagcctaaca aagcaggagg gccccgggac ctgaaaatgc
1081 tctgtgcaga agaagagcag agcaggacgt gctgggtgac cgccatccga ctgctgaagg
1141 atggcatgca gctgtatcag aattatatgc atccatacca aggtagaagc gcctgcaatt
1201 ctgagagcat gtcaccatg agaagcgtat cagagaattc cctagtagca atggacttct
1261 caggtgagaa gagcagagtc atagacaacc ccactgaagc gctttcgggt gctgttgagg
1321 aagccctcgc gtggaggaaa aaaggctgtt tacgcctggg gaatcacgga agccccagt
1381 cccctcccca gagctctgtc gtgaacatgg ctctccatcg gtcccaacca tggtttcacc
1441 acagaatttc cagagatgag gctcagcggc tgatcattcg gcaggggcct gtggatggag
1501 ttttcttggt acgggatagt cagagtaacc ccagaacttt tgtactgtca atgagtcag
1561 gacaaaagat aaaacactat caaattatac ccgtagaaga tgatggtgag ctgttccata
1621 ctctggatga tggccatacg aagttcacag acctcatcca gctggtggag ttctaccagc
1681 tcaacagggg ggtccttcct tgcaagctga agcattactg tgctaggatg gctgtttagc
1741 caaactgtgt gtcactcgtt acactacaga agaagaaggga tgcaaaggag aatgattaga
1801 gagagagaga gagatcaciaa ggctgaaaac aaatcatggt gaaaagaaga tttcacctgc
1861 gggttacaaa aaaaaatagg tcacacattg caaattagtg aaaacttgga ttcctattac
1921 actcatgact ttaaatttat tagttaaatt taaaaaaa aaaaaaaa
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L2 ANSWER 126 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV362938 GenBank (R)  
GenBank ACC. NO. (GBN): AV362938  
GenBank VERSION (VER): AV362938.1 GI:6410585  
CAS REGISTRY NO. (RN): 249018-61-9  
SEQUENCE LENGTH (SQL): 207  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 14 Nov 1999  
DEFINITION (DEF): AV362938 RIKEN full-length enriched, 15 days embryo  
male testis Mus musculus cDNA clone 8030405L12 3'  
similar to AF076619 Rattus norvegicus molecular adapter  
rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus  
NUCLEIC ACID COUNT (NA): 76 a 37 c 34 g 60 t  
COMMENT:

Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center(GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,  
Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki  
Y.  
Transcriptional sequencing: A method for DNA sequencing using RNA

polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)  
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,  
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,  
 Y. and Hayashizaki,Y.  
 Automated filtration-based high-throughput plasmid preparation  
 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci,P. and Hayashizaki,Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
 further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 207)  
 Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;  
 Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.;  
 Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.;  
 Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.;  
 Kai,C.?; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.;  
 Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.;  
 Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.;  
 Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y.;  
 Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.;  
 Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.;  
 Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.;  
 Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.;  
 Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.  
 RIKEN Mouse ESTs (Konno,H., et al. 1999)

TITLE (TI):

JOURNAL (SO):

Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..207	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="8030405L12" /clone-lib="RIKEN full-length enriched, 15 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="15 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of subtraction to Rot = 185.0 Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

1 attttttctc tacagcagga gaaggatccc aaggagaatg attagagaga gagagagaca  
 61 tcaccagcct gaaaacaaat tatgctgcac aggagatttc acctccggct tactaaagaa

121 aatagttcac acattccaaa ttagtgaaaa cttaggattcc tattacaatc ttgactttaa  
 181 atttattagt taaaatttaa ccttatt

L2 ANSWER 127 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV355587 GenBank (R)  
 GenBank ACC. NO. (GBN): AV355587  
 GenBank VERSION (VER): AV355587.1 GI:6396644  
 CAS REGISTRY NO. (RN): 248828-30-0  
 SEQUENCE LENGTH (SQL): 231  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 12 Nov 1999  
 DEFINITION (DEF): AV355587 RIKEN full-length enriched, adult male adrenal gland Mus musculus cDNA clone 7330413L18 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (\*\*\*Grb14\*\*\*) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 93 a 32 c 36 g 70 t

# COMMENT:

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 URL: http://genome.gsc.riken.go.jp/  
 Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,  
 Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki  
 , Y.

Transcriptional sequencing: A method for DNA sequencing using RNA  
 polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)  
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,  
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki  
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Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for  
 further details.

# REFERENCE:

1 (bases 1 to 231)  
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.;  
 Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.;  
 Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.;  
 Kai, C. ?; Kawai, J.; Kikuchi, N.; Kojima, Y.; Koya, S.;  
 Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.;  
 Nakamura, M.; Oda, H.; Okazaki, Y.; Owa, C.; Ozawa, Y.;  
 Saito, H.; Sano, M.; Sato, K.; Shibata, K.; Shibata, Y.;  
 Shigemoto, Y.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.;  
 Suzuki, H.; Suzuki, H.; Takahashi, F.; Tateno, M.;  
 Tominaga, N.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.;  
 Yamamura, T.; Yasunishi, A.; Yokota, T.; Yoshiki, A.;  
 Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.  
 RIKEN Mouse ESTs (Konno, H., et al. 1999)  
 JOURNAL (SO): Unpublished (1999)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..231	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="7330413L18" /clone-lib="RIKEN full-length enriched, adult male adrenal gland" /sex="male"



/tissue-type="adrenal gland"  
 /dev-stage="adult"  
 /lab-host="DH10B"  
 /note="Site-1: SalI; site-2:  
 BamHI; cDNA library was prepared  
 and sequenced in Mouse Genome  
 Encyclopedia Project of Genome  
 Exploration Research Group in  
 Riken Genomic Sciences Center and  
 Genome Science Laboratory in  
 RIKEN. Division of Experimental  
 Animal Research in Riken  
 contributed to prepare mouse  
 tissues. 1st strand cDNA was  
 primed with a primer [5'  
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT  
 TTTTTTTVN 3'], cDNA was prepared  
 by using trehalose  
 thermo-activated reverse  
 transcriptase and subsequently  
 enriched for full-length by  
 cap-trapper. cDNA went through one  
 round of normalization to Rot =  
 10.0 and subtraction to Rot =  
 185.0. Second strand cDNA was  
 prepared with the primer adapter  
 of sequence [5'  
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC  
 CCCCCCCCCC 3']. cDNA was cloned  
 into the XhoI and BamHI sites.  
 Vector: a modified pBluescript  
 KS(+) after bulk excision from  
 Lambda FLC I. Cloning sites, 5'  
 end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

```

1 gctttttacc ctaattatct ttcaattttt atactacaga agaagaagca tccaaaggag
61 aatgattaga gagagagaga gaaatcacaa ggctgaaaac aaattatggt gaaaagaaga
121 tttcacctgc gggttacaaa aaaaaatagt tcacacattg caaattagtg aaaacttgga
181 ttctattac attcatgact ttaaatttat tagtttaaatt taaaccttat t
  
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L2 ANSWER 128 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV335961 GenBank (R)  
 GenBank ACC. NO. (GBN): AV335961  
 GenBank VERSION (VER): AV335961.1 GI:6376013  
 CAS REGISTRY NO. (RN): 248628-93-5  
 SEQUENCE LENGTH (SQL): 193  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 11 Nov 1999  
 DEFINITION (DEF): AV335961 RIKEN full-length enriched, adult male medulla  
 oblongata Mus musculus cDNA clone 6330578M15 3' similar  
 to AF076619 Rattus norvegicus molecular adapter rGrb14  
 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.  
 SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus  
 NUCLEIC ACID COUNT (NA): 73 a 32 c 35 g 52 t 1 others

COMMENT:

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 URL: <http://genome.gsc.riken.go.jp/>  
 Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,  
 Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki  
 , Y.  
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Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.

Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci,P. and Hayashizaki,Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

#### REFERENCE:

AUTHOR (AU):

1 (bases 1 to 193)

Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.?.; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.; Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.; Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.

RIKEN Mouse ESTs (Konno,H., et al. 1999)

TITLE (TI):

JOURNAL (SO):

Unpublished (1999)

#### FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..193	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6330578M15" /clone-lib="RIKEN full-length enriched, adult male medulla oblongata" /sex="male" /tissue-type="medulla oblongata" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"

#### SEQUENCE (SEQ):

1 aagaaagaag ggatcccaag gagcatgatt agagagagag aagagataac caggctgcac  
61 accaatcatg gtgcaaagaa gaattttcac tttcgggtaa ccnactaata gctcacacat

121 ttcaaattag tggaaacttg gattcctatt acattcatga ctttaaattt attagttaaa  
181 attaaacctt att

L2 ANSWER 129 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV327707 GenBank (R)  
GenBank ACC. NO. (GBN): AV327707  
GenBank VERSION (VER): AV327707.1 GI:6367759  
CAS REGISTRY NO. (RN): 248487-17-4  
SEQUENCE LENGTH (SQL): 286  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 11 Nov 1999  
DEFINITION (DEF): AV327707 RIKEN full-length enriched, adult male medulla oblongata Mus musculus cDNA clone 6330436D10 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 105 a 52 c 53 g 76 t

COMMENT:

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Email: genome-res@gsc.riken.go.jp,  
URL: <http://genome.gsc.riken.go.jp/>  
Sasaki,N., Izawa,M., Watahiki,M., Ozawa,K., Tanaka,T., Yoneda,Y.,  
Matsuura,S., Carninci,P., Muramatsu,M., Okazaki,Y. and Hayashizaki  
,Y.

Transcriptional sequencing: A method for DNA sequencing using RNA  
polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)  
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,  
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,Y. and Hayashizaki,Y.

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Carninci,P. and Hayashizaki,Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

REFERENCE:

1 (bases 1 to 286)  
AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;  
Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.;  
Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.;  
Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.;  
Kai,C.?.; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.;  
Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.;  
Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.;  
Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y. ;  
Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.;  
Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.;  
Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.;  
Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.;  
Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.  
TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al. 1999)  
JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..286	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6330436D10" /clone-lib="RIKEN full-length enriched, adult male medulla oblongata" /sex="male"

/tissue-type="medulla oblongata"  
/dev-stage="adult"  
/lab-host="DH10B"  
/note="Site-1: SalI; Site-2:  
BamHI; cDNA library was prepared  
and sequenced in Mouse Genome  
Encyclopedia Project of Genome  
Exploration Research Group in  
Riken Genomic Sciences Center and  
Genome Science Laboratory in  
RIKEN. Division of Experimental  
Animal Research in Riken  
contributed to prepare mouse  
tissues. 1st strand cDNA was  
primed with a primer [5'  
GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT  
TTTTTTTVN 3'], cDNA was prepared  
by using trehalose  
thermo-activated reverse  
transcriptase and subsequently  
enriched for full-length by  
cap-trapper. cDNA went through one  
round of normalization to Rot =  
10.0 and subtraction to Rot =  
100.0. Second strand cDNA was  
prepared with the primer adapter  
of sequence [5'  
GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC  
CCCCCCCCCCC 3']. cDNA was cloned  
into the XhoI and BamHI sites.  
Vector: a modified pBluescript  
KS(+) after bulk excision from  
Lambda FLC I. Cloning sites, 5'  
end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

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1 gcaccagtca tcagggcctc cttcctccca aactgaagca ttattatgct aggatggctg
61 ttcagccata ctcttctcat tcttatacta cagaagaaga aggatgccaa aggagaatga
121 ttagagagag agagagagat cacaaggctg aaaacaaatc atggtgaaaa gaagatttca
181 cctgcgggtt acaaaaaaaaa ataggtcaca cattgcaaat tagtgaaaac ttggattcct
241 attacattca tgactttaaa tttattagtt aaaattaaac cttatt

```

L2 ANSWER 130 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV321727 GenBank (R)  
GenBank ACC. NO. (GBN): AV321727  
GenBank VERSION (VER): AV321727.1 GI:6291562  
CAS REGISTRY NO. (RN): 247815-00-5  
SEQUENCE LENGTH (SQL): 253  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 9 Nov 1999  
DEFINITION (DEF): AV321727 RIKEN full-length enriched, 13 days embryo  
male testis Mus musculus cDNA clone 6030436014 3'  
similar to AF076619 Rattus norvegicus molecular adapter  
rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE:  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 84 a 46 c 45 g 78 t

COMMENT:

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Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center(GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
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Fax: 81-45-503-9216  
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URL: http://genome.gsc.riken.go.jp/  
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polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)  
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,  
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,  
 Y. and Hayashizaki,Y.  
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 system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci,P. and Hayashizaki,Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)  
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
 further details.

REFERENCE: 1 (bases 1 to 253)  
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;  
 Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.;  
 Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.;  
 Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.;  
 Kai,C.?; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.;  
 Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.;  
 Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.;  
 Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y. ;  
 Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.;  
 Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.;  
 Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.;  
 Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.;  
 Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al. 1999)  
 JOURNAL (SO): Unpublished (1999)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..253	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6030436014" /clone-lib="RIKEN full-length enriched, 13 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTT VN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

# SEQUENCE (SEQ):

1 gcagccttac tgtgatcgcc ttccctctttc cccaaactct cttttactcc tttatctaca

61 gtagaagcag gttgcaagcg agaattgatta gagagtgaga gtagagattac caggctgata  
 121 acaattcatg gtgaaaagaa gattttcacct gcgggttaca aaaaaaata ggtagacacat  
 181 tgcaaattag tgaaaacttg gatttcctatt acattcatga ctttaaattt attagttaaa  
 241 attaaacctt att

L2 ANSWER 131 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV259119 GenBank (R)  
 GenBank ACC. NO. (GBN): AV259119  
 GenBank VERSION (VER): AV259119.1 GI:6246578  
 CAS REGISTRY NO. (RN): 246989-25-3  
 SEQUENCE LENGTH (SQL): 230  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 4 Nov 1999  
 DEFINITION (DEF): AV259119 RIKEN full-length enriched, adult male testis (DH10B) Mus musculus cDNA clone 4930403H14 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 ( \*\*\*Grb14\*\*\* ) mRNA, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 103 a 27 c 34 g 66 t

# COMMENT:

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 The Institute of Physical and Chemical Research (RIKEN)  
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 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,  
 URL: http://genome.gsc.riken.go.jp/  
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 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,  
 Y. and Hayashizaki, Y.

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 Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for  
 further details.

REFERENCE: 1 (bases 1 to 230)  
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;  
 Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.;  
 Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.;  
 Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.;  
 Kai, C.; Kawai, J.; Kikuchi, N.; Kojima, Y.; Koya, S.;  
 Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.;  
 Nakamura, M.; Oda, H.; Okazaki, Y.; Owa, C.; Ozawa, Y.;  
 Saito, H.; Sano, M.; Sato, K.; Shibata, K.; Shibata, Y.;  
 Shigemoto, Y.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.;  
 Suzuki, H.; Suzuki, H.; Takahashi, F.; Tateno, M.;  
 Tominaga, N.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.;  
 Yamamura, T.; Yasunishi, A.; Yokota, T.; Yoshiki, A.;  
 Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.  
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al. 1999)  
 JOURNAL (SO): Unpublished (1999)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..230	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="4930403H14" /clone-lib="RIKEN full-length enriched, adult male testis"

(DH10B)"  
 /sex="male"  
 /tissue-type="testis"  
 /dev-stage="adult"  
 /lab-host="DH10B"  
 /note="Site-1: SalI; Site-2:  
 BamHI; cDNA library was prepared  
 and sequenced in Mouse Genome  
 Encyclopedia Project of Genome  
 Exploration Research Group in  
 Riken Genomic Sciences Center and  
 Genome Science Laboratory in  
 RIKEN. Division of Experimental  
 Animal Research in Riken  
 contributed to prepare mouse  
 tissues. 1st strand cDNA was  
 primed with a primer [5'  
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT  
 TTTTTTVN 3'], cDNA was prepared  
 by using trehalose  
 thermo-activated reverse  
 transcriptase and subsequently  
 enriched for full-length by  
 cap-trapper. Second strand cDNA  
 was prepared with the primer  
 adapter of sequence [5'  
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC  
 CCCCCCCCCC 3']. cDNA was cloned  
 into the XhoI and BamHI sites.  
 Vector: a modified pBluescript  
 KS(+) after bulk excision from  
 Lambda FLC I. Cloning sites, 5'  
 end: SalI; 3' end: BamHI."

# SEQUENCE (SEQ):

```

1 atgttcttat ctaaacttct taatttaata cactaaagaa gaagaatgaa acaaagaaga
61 aagatcagag agagagagaa atattacaag gttgaaaaca aatcttggtg aaaagaagat
121 ttaacctgcg ggttacaaaa aaaaatagtt cacacattgc aaattagtga aaacttggat
181 tcctattaca atcatgactt taaatttatt agttaaaatt aaaccttatt

```

L2 ANSWER 132 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF190121 GenBank (R)  
 GenBank ACC. NO. (GBN): AF190121  
 GenBank VERSION (VER): AF190121.1 GI:6018121  
 CAS REGISTRY NO. (RN): 244113-77-7  
 SEQUENCE LENGTH (SQL): 2052  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Rodents  
 DATE (DATE): 22 Nov 2000  
 DEFINITION (DEF): Rattus norvegicus growth factor receptor binding  
 protein GRB7 (Grb7) mRNA, complete cds.  
 SOURCE: Norway rat.  
 ORGANISM (ORGN): Rattus norvegicus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Rattus  
 NUCLEIC ACID COUNT (NA): 440 a 602 c 548 g 462 t  
 REFERENCE: 1 (bases 1 to 2052)  
 AUTHOR (AU): Kasus-Jacobi,A.; Perdereau,D.; Auzan,C.; Clauser,E.;  
 Van Obberghen,E.; Mauvais-Jarvis,F.; Girard,J.;  
 Burnol,A.F.  
 TITLE (TI): Identification of the rat adapter \*\*\*Grb14\*\*\* as an  
 inhibitor of insulin actions  
 JOURNAL (SO): J. Biol. Chem., 273 (40), 26026-26035 (1998)  
 OTHER SOURCE (OS): CA 130:20710  
 REFERENCE: 2 (bases 1 to 2052)  
 AUTHOR (AU): Kasus-Jacobi,A.; Bereziat,V.; Perdereau,D.; Girard,J.;  
 Burnol,A.F.  
 TITLE (TI): Evidence for an interaction between the insulin  
 receptor and Grb7. A role for two of its binding  
 domains, PIR and SH2  
 JOURNAL (SO): Oncogene, 19 (16), 2052-2059 (2000)  
 OTHER SOURCE (OS): CA 133:69252  
 REFERENCE: 3 (bases 1 to 2052)  
 AUTHOR (AU): Burnol,A.F.; Perdereau,D.; Kasus-Jacobi,A.

TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (27-SEP-1999) UPR 1524, CNRS, 9 rue Jules  
Hetzel, Meudon 92190, France

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..2052	/organism="Rattus norvegicus" /db-xref="taxon:10116" /tissue-type="liver"
gene	1..2052	/gene="Grb7"
CDS	50..1657	/gene="Grb7" /note="molecular adapter" /codon-start=1 /product="growth factor receptor binding protein GRB7" /protein-id="AAF01776.1" /db-xref="GI:6018122" /translation="MELDLSPSHLSSSPEDVCPT PGTPPETPPPPDNPPPGDVKRSQP LPIPSSRKLREEEFQATSLPSIPNPFPELCSPPS QKPILGGSSGARGLLPRDSSRLCV VKVYSEDGACRSVEVAAGATARHVCEMLVQRAHA LSDENWGLVECHPYLALERGLEDH ESVVEVQEAWPVGDSRFIFRKNFAKYELFKSP HTLFPEKMVSSCLDPTGISHEDL IQNFLNAGSFPEIQGFLQLRGSGRSGRKLWKRF FCFLRRSGLYYSTKGTSKDPRHLQ YVADINESNVYVVTQGRKLYGIPTDFGFCVKPNK LRNGHKGLHIFCSEDEQSRTCWLS AFRLFKYGVQLYKNYQQAQRHLRLSYLGSPLR SVSDNTLVAMDFSGHAGRVNIENPQ EALSAATEEAQAWRKKTNHRLSLPTPCSGLSLSA AIHRTQPWFHGRISREESQRLIGQ QGLVDGVFLVRESQRNPQGFVLSLCHLQKVKHYL ILPSEDEGCLYFSMDDGQTRFTDL LQLVEFHQLNRGILPCLLRHCCARVAL"

# SEQUENCE (SEQ):

1	ctttgggtcc	cggtgtcccc	ctccttctgc	tggagttcct	ccaggtgcca	tggaactgga
61	tctgagcccc	tctcatctca	gcagctcccc	agaagatgtg	tgcccaactc	ctgggacccc
121	tcccagagact	cctccgcccc	cggataaacc	tccgcccggc	gatgtgaagc	gggtctcagcc
181	tttgcccacat	ccaagtagca	ggaaacttcg	agaagaggag	tttcaggcaa	cctctctacc
241	ctccatcccc	aacccttcc	ccgagctctg	cagccacact	tcacagaaac	ccattcttgg
301	tggttcctcc	ggtgctaggg	ggttgcttcc	tcgagactcc	agccgcctct	gtgtggtgaa
361	ggtgtacagt	gaagatggag	cctgccggtc	tgtggaagtg	gcggcaggcg	cgacggctcg
421	ccatgtgtgt	gagatgctgg	tcagcgcgagc	tcacgcctcg	agcgatgaga	actggggcct
481	ggtggagtg	cacccttatt	tggctctgga	gcgggggtttg	gaggaccatg	agtctgtggt
541	agaagtgag	gaggcctggc	ctgtgggtgg	agacagccgc	ttcatcttcc	gtaaaaactt
601	cgccaagtat	gaactcttca	agagccctcc	gcacaccctg	ttcccagaaa	agatggtttc
661	cagctgtctg	gatacaccaa	caggcatatc	ccatgaagac	ctcatccaga	acttcctgaa
721	tgctggcagc	ttccctgaga	tccagggctt	cctgcagctt	cggggatcag	gccgggggtc
781	aggtcgaaag	ctttggaac	gattcttctg	cttcctgcgt	cggctctggc	tctattactc
841	gaccaagggc	acctctaagg	acccgagaca	cctacagtac	gtggcagata	taaatgagtc
901	caatgtgtat	gtggtgaccc	agggccgcaa	gctgtatggg	ataccacccg	acttcggctt
961	ttgtgtcaag	cccaacaagc	ttcgaaatgg	ccacaagggg	ctccacatct	tctgcagcga
1021	ggatgagcag	agtcggactt	gctggctgtc	cgccttccgg	ctcttcaagt	acgggggtaca
1081	gctatataag	aattatcagc	aggcccagtc	tcgtcacctg	cgcttatcgt	atttggggtc
1141	tccacccttg	aggagtgtct	cagataatac	cctgggtggc	atggacttct	ctggccatgc
1201	tgggcgtgtc	attgagaacc	cccaggaagc	tctgagtgtc	gccacagagg	aagcccaggc
1261	ctggaggaag	aagacaaacc	accgtctcag	cctgcccacc	ccgtgctccg	gcctgagcct
1321	cagtgcagct	atccatcgca	cccagccctg	ggttcatgga	cgaatctccc	gggaggagag
1381	ccagcggcta	attggacagc	agggcctggg	ggatgggtga	ttcctgggtc	gggagagcca
1441	gcggaaccca	cagggcttcg	ttctgtctct	gtgccatctg	cagaaagtca	aacattatct
1501	catcttgcca	agcgaagatg	aaggctgcct	ttacttcagc	atggatgacg	gccagaccgc
1561	tttcacagac	ctgtgcagc	tggtggaatt	ccaccagctg	aaccgaggca	tcctgccctg
1621	cttgctgcgc	cactgctgtg	cccgtgtggc	cctctgaggc	cacacaagct	gttacagcca
1681	tgggctgtct	tatgcacctt	ctgtctccgt	caggcgactc	ggtgcagatg	ggtgggatga
1741	taaacagatg	aagagctccc	cccacttttc	tcccactttt	tttttttacc	tccctcaggt
1801	aatgaaacat	ccccagccc	tgttcatccc	tgactcctgt	ccccaaagga	ggcattgtgg
1861	tcctctcccc	ttggtagagc	tcctgaggca	gtgaagggca	ttatgagagg	agtaggggca
1921	gcccgggtgg	tctcatgccc	caccacact	ctgtacagac	tgagaggcca	gttgatctgc
1981	tctgttttat	accagtgata	ataaagatta	ttttttgata	caaaaaaaaa	aaaaaaaaaa
2041	aaaaaaaaaa	aa				



LOCUS (LOC): AI928176 GenBank (R)  
 GenBank ACC. NO. (GBN): AI928176  
 GenBank VERSION (VER): AI928176.1 GI:5664140  
 CAS REGISTRY NO. (RN): 241373-88-6  
 SEQUENCE LENGTH (SQL): 319  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 8 Mar 2000  
 DEFINITION (DEF): wo95a09.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
 IMAGE:2463064 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 90 a 54 c 48 g 127 t  
 COMMENT:  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 399 Std Error: 0.00  
 Seq primer: -40UP from Gibco.  
 REFERENCE: 1 (bases 1 to 319)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):  

Feature Key	Location	Qualifier
source	1..319	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2463064" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):  
 1 ttcctaaggt ttaattttta ctaatgaatt ttaaataatgatg aatgtaaagt caatccaagt  
 61 ctttgcttat ttgcaatgca caaactattt ttttgtaact tgcagggtgaa atacattctt  
 121 ttcacatgat aatgttttcg cccttattta tggctcttta ttatttttct tgagtccttt  
 181 tccttcaata gtttaataag tcacttctgg ctgtctaga gagcaatcct agcacaataa  
 241 tgtttcaact tgcaaggaag aacgccctta ttgagttgat agaactccac cagctgtatt  
 301 agatctgtaa atcttgtgt

L2 ANSWER 134 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI870172 GenBank (R)  
 GenBank ACC. NO. (GBN): AI870172

GenBank VERSION (VER): AI870172.1 GI:5544140  
 CAS REGISTRY NO. (RN): 390159-63-4  
 SEQUENCE LENGTH (SQL): 745  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 7 Mar 2000  
 DEFINITION (DEF): w115e05.x1 NCI\_CGAP\_Ut1 Homo sapiens cDNA clone  
 IMAGE:2424992 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 189 a 157 c 145 g 249 t 5 others  
 COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 1767 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
 High quality sequence stop: 414.

REFERENCE: 1 (bases 1 to 745)  
 AUTHOR (AU): NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..745	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2424992" /clone-lib="NCI-CGAP-Ut1" /tissue-type="well-differentiated endometrial adenocarcinoma, 7 pooled tumors" /lab-host="DH10B" /note="Organ: uterus; Vector: pCMV-SPORT6; Site-1: SalI; Site-2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.75 kb. Life Technologies catalog #: 11538-014"

# SEQUENCE (SEQ):

```

1  tcctaagggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61  tttgctttatt tgcaatgcac aaactatttt tttgtaactt gcaggtgaaa tacattcttt
121 tcacatggta atgttttcgc cttattttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag tttaaataag tcaccttctg ggcttgctta gagagcaatc ctagcacaat
241 aatgtttcaa cttgcaagga agaacgccct tattgagttg atagaactcc accagctgta
301 ttagatctgt aaatctttgt tggccatcat ccagtgtgtg gaacatttca ccgtcatctt
361 ctactgggat aatttgaaag tgctttattt tttgtccatg actcattgac agtacgaaag
421 ttttgggggtt actctgacta tcccgtacca agaaaactcc atccacaagt cttgtctgaa
481 taatcaatcg ctgagcctca tctctagaaa tnttggtggt aaaccatggc tgggaccggg
541 ggatagccat gtntgtggca gagctctgtg aagagcagtg gggctaccgt gagggccag
601 gcgtaaacat ctttttttnc tccaagcgag tccctcttca accgcaactg aaaggggctt
661 ccgtgggatn ttctaatact ctgcttttcc tgccctgaga agtcattgct accagggaaa
721 tctctgtnta cttctcataa ggtga
```

L2 ANSWER 135 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI767914 GenBank (R)  
 GenBank ACC. NO. (GBN): AI767914  
 GenBank VERSION (VER): AI767914.1 GI:5234435  
 CAS REGISTRY NO. (RN): 236629-01-9  
 SEQUENCE LENGTH (SQL): 429  
 MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 21 Dec 1999  
 DEFINITION (DEF): wi99c10.x1 NCI\_CGAP\_Kid12 Homo sapiens cDNA clone  
 IMAGE:2401458 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 112 a 74 c 74 g 168 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)  
 Insert Length: 925 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
 High quality sequence stop: 260.

REFERENCE: 1 (bases 1 to 429)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..429	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2401458" /clone-lib="NCI-CGAP-Kid12" /tissue-type="2 pooled tumors (clear cell type)" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1323912-1325831, 1471368-1472903 and 1492104-1493255). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 ttttcctaag gtttaatttt aactaatgaa ttttaaata tgaatgtaaa gtcaatccaa
61 gtctttgctt atttgcaatg cacaaactat ttttttgtaa cttgcagggtg aaatacatcc
121 ttttcacatg ataattgttt cgcccttatt tatggctctt tattatcttt cttgagtcct
181 tttccttcaa tagtttaata agtcacttct ggcttgctta gagagcaatc ctagcacaat
241 aatgtttcaa cttgcaagga agaacgccct tattgagttg atagaactcc accagctggt
301 ttagatctgt aattttgggg tggccatatt cagggtgtgtg gaacatttca ccgtcatctt
361 ctactggtat aattggaaaa gtgctttatt ntittgtcca tgactcttgg accgtaccaa
421 agttttggg
  
```

L2 ANSWER 136 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI760945 GenBank (R)  
 GenBank ACC. NO. (GBN): AI760945  
 GenBank VERSION (VER): AI760945.1 GI:5176612  
 CAS REGISTRY NO. (RN): 236076-02-1

SEQUENCE LENGTH (SQL): 312  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 21 Dec 1999  
 DEFINITION (DEF): wi70e05.x1 NCI\_CGAP\_Kid12 Homo sapiens cDNA clone  
 IMAGE:2398688 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 90 a 54 c 46 g 122 t

COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)  
 Insert Length: 403 Std Error: 0.00  
 Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 312)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..312	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2398688" /clone-lib="NCI-CGAP-Kid12" /tissue-type="2 pooled tumors (clear cell type)" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1323912-1325831, 1471368-1472903 and 1492104-1493255). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 tttcctaagg ttttaatttta actaatgaat ttttaatgat gaatgtaaag tcaatccaag
61 tcttttgctta ttgcaatgc acaactatt tttttgtaac ttgcaggtga aatacattct
121 tttcacatga taacgttttc gcccttattt atggtctttt attatttttc ttgagtcctt
181 ttccttcaat agtttaataa gtcacttctg gcttgtctag agagcaatcc tagcacaata
241 atgtttcaac ttgcaaggaa gaacgccctt attgagttga tagaactcca ccagctgtat
301 tagactctgta aa
```

L2 ANSWER 137 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI695260 GenBank (R)  
 GenBank ACC. NO. (GBN): AI695260  
 GenBank VERSION (VER): AI695260.1 GI:4983160  
 CAS REGISTRY NO. (RN): 233989-40-7  
 SEQUENCE LENGTH (SQL): 408

MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 16 Dec 1999  
 DEFINITION (DEF): wa02b08.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
 IMAGE:2296887 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 112 a 82 c 62 g 152 t  
 COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 848 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
 High quality sequence stop: 396.

REFERENCE: 1 (bases 1 to 408)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

#### FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..408	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2296887" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

#### SEQUENCE (SEQ):

```

1 tcctaaggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 tttgcttatt tgcaatgcac aaactatttt ttgttaactt gcaggtgaaa tacattcttt
121 tcacatgata atgttttcgc ccttatttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag ttttaataagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttca
361 cccatccaca agtccttgct gaataatcaa tcgctgagcc tcattctta
  
```

L2 ANSWER 138 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI671320 GenBank (R)  
 GenBank ACC. NO. (GBN): AI671320  
 GenBank VERSION (VER): AI671320.1 GI:4851051  
 CAS REGISTRY NO. (RN): 232699-27-3  
 SEQUENCE LENGTH (SQL): 497  
 MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 17 Dec 1999  
 DEFINITION (DEF): wc29a02.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
 IMAGE:2316554 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 144 a 100 c 87 g 164 t 2 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 795 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
 High quality sequence stop: 372.

REFERENCE: 1 (bases 1 to 497)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..497	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2316554" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 gcctgccagt gacacataaa tatcactatt gccaaattcg ctaaaaactg caaatgccgc
61 ggttcctttg atgttccttt agtagaaaaa tataaaccag atcttcttag aaaaaagtaa
121 atttttttcc aagacttctt tcctgttctt ttcgcatgta agaaaccatg aatttcagga
181 tatgtgcttg aactcagaaa catctgcaaa atctgtgtgg gggatatttc accattgggt
241 tcagttgcaa aagataccat atgctctgga aaaaaataca ttgggttttt aaagaactca
301 tatttgcat aattttttct aaagtatagt ttgttttctt cttctatccc ccagttggat
361 agcacttcaa tcaccagttc gtggtcttct attgttcttt ctacacctat gtgaggcagg
421 tgctcanaaa gggtccagct gtggtcatca atgtaatgat tcttcaggat caacagctga
481 ncaacatctc gagccgt
  
```

L2 ANSWER 139 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI624682 GenBank (R)  
 GenBank ACC. NO. (GBN): AI624682  
 GenBank VERSION (VER): AI624682.1 GI:4649613  
 CAS REGISTRY NO. (RN): 230649-94-2  
 SEQUENCE LENGTH (SQL): 533

MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 14 Dec 1999  
 DEFINITION (DEF): ts43e12.x1 NCI\_CGAP\_Ut1 Homo sapiens cDNA clone  
 IMAGE:2231374 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 144 a 104 c 91 g 193 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
 Insert Length: 1696 Std Error: 0.00  
 Seq primer: -40UP from Gibco  
 High quality sequence stop: 401  
 POLYA=No.

REFERENCE: 1 (bases 1 to 533)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

#### FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..533	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2231374" /clone-lib="NCI-CGAP-Ut1" /tissue-type="well-differentiated endometrial adenocarcinoma, 7 pooled tumors" /lab-host="DH10B" /note="Organ: uterus; Vector: pCMV-SPORT6; Site-1: SalI; Site-2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.75 kb. Life Technologies catalog #: 11538-014"

#### SEQUENCE (SEQ):

```

1 tcctaagggt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 ttgtgcttatt tgcaatgcac aaactatttt tttgtaactt gcagggtgaaa tacattcttt
121 tcacatggta atgttttcgc ccttatttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag tttataaagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttcta
361 ctggtataat ttgaaagtgc tttatttttt gtccatgact cattgacagt acgaaagttt
421 tgggggttact ctgactatcc cgtaccaaga aaactccatc cacaagtcct tgctgaataa
481 tcaatcgctg agcctcatct ctagaaatnt tgtgtgaacc atggctggga ccg
  
```

L2 ANSWER 140 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI610228 GenBank (R)  
 GenBank ACC. NO. (GBN): AI610228  
 GenBank VERSION (VER): AI610228.1 GI:4619395  
 CAS REGISTRY NO. (RN): 390132-63-5  
 SEQUENCE LENGTH (SQL): 701  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 13 May 1999  
 DEFINITION (DEF): tp15g09.x1 NCI\_CGAP\_Gas4 Homo sapiens cDNA clone  
 IMAGE:2187904 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.

ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 179 a 144 c 132 g 242 t 4 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: Life Technologies, Inc.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 803 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 406  
POLYA=No.

REFERENCE: 1 (bases 1 to 701)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..701	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2187904" /clone-lib="NCI-CGAP-Gas4" /tissue-type="poorly differentiated adenocarcinoma with signet ring cell features" /lab-host="DH10B" /note="Organ: stomach; Vector: pCMV-SPORT6; Site-1: SalI; Site-2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.69 kb. Life Technologies catalog #: 11549-011"

SEQUENCE (SEQ):

```
1 ttctaagggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 tttgtcttatt tgcaatgcac aaactatctt tttgttaactt gcagggtgaaa tacattcctt
121 tcacatggta atgttttcgc ccttattttat ggtctttttat tatttttctt gagtcctttt
181 ccttcaatag tttaataagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttcta
361 ctggtataat ttgaaagtgc tctatttttt gtccatgact cattgacagt acgaaagttt
421 tgggggttact ctgactatcc cgtaccaaaa aactccatcc acaagtcctt gctgaataat
481 caatcgctga gcctcatctc tagaaaatttt gtggtgaaac catggctggg accggtggat
541 agccatgttt gtggcagagc tctgtgaaga gcagtggngc taccgtgagt gccagccgt
601 aaacatcctt ttttcttcc agcgagtcct tcttcaaccg caactgaaag ggcttcagnn
661 ggatttttcta taactctgct tttctggcct gagaagtcca t
```

L2 ANSWER 141 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI609572 GenBank (R)  
GenBank ACC. NO. (GBN): AI609572  
GenBank VERSION (VER): AI609572.1 GI:4618739  
CAS REGISTRY NO. (RN): 230319-99-0  
SEQUENCE LENGTH (SQL): 368  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 14 May 1999  
DEFINITION (DEF): tw28a08.x1 NCI\_CGAP\_Ov35 Homo sapiens cDNA clone  
IMAGE:2260982 3' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.  
SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo



NUCLEIC ACID COUNT (NA): 100 a 59 c 57 g 151 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
R. Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: Life Technologies, Inc.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 318 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 324  
POLYA=No.

REFERENCE: 1 (bases 1 to 368)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..368	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2260982" /clone-lib="NCI-CGAP-Ov35" /tissue-type="tumor, 5 pooled (see description)" /lab-host="DH10B" /note="Organ: ovary; Vector: pCMV-SPORT6; Site-1: Sali; Site-2: NotI; This library represents the normalized version of NCI-CGAP-Ov23. Cloned unidirectionally. Primer: oligo dT. Average insert size 0.86 kb. Tumor types include: mixed Mullerian tumor, papillary serous, clear cell, spindle cell. All are primary tumors, metastasis positive. Constructed by Life Technologies."

SEQUENCE (SEQ):

```
1 tttttttttt tttttttttt ttttttatgc atacacttct tggatttatt aatgctatag
61 ttctatgaaa tccatgagta aatatagaaa cattgaaatt ccttctctct ctttagagtt
121 ttcttggtac gggatagtc gagtaacccc aaaactttcg tactgtcaat gagtcagtgga
181 caaaaaataa agcactttca aattatacca gtaagtaatt cgtgatttca catttggtga
241 ttagaaatga ccttaatgct aagcttttga tcttaatgca taagcttttg gaaactttgg
301 ttttcttttg gnccttttat taaatataat ttggcagctt gtgctttgac tagagccccg
361 cgtccgcc
```

L2 ANSWER 142 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI522272 GenBank (R)  
GenBank ACC. NO. (GBN): AI522272  
GenBank VERSION (VER): AI522272.1 GI:4436407  
CAS REGISTRY NO. (RN): 228602-27-5  
SEQUENCE LENGTH (SQL): 604  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 13 Apr 1999  
DEFINITION (DEF): ti84g01.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
IMAGE:2138736 3' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.  
SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 160 a 118 c 118 g 208 t

COMMENT:

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 1380 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 308.

REFERENCE: 1 (bases 1 to 604)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..604	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2138736" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

# SEQUENCE (SEQ):

```

1  ttctaaggt ttaatttta ctaatgaatt ttaaagtatg aatgtaaagt caatccaagt
61  ctttgcttat ttgcaatgca caaactattt ttttgtaact tgcagggtgaa atacattctt
121  ttacatgat aatgttttcg cccttattta tggcttttta ttatttttct tgagtccttt
181  tccttcaata gtttaataag tcacttctgg cttgtctaga gagcaatcct agcacaataa
241  tgtttcaact tgcaaggaag aacgccctta ttgagttgat agaactccac cagctgtatt
301  agatctgtaa atcttgtgtg gccatcatcc agtgtgtgga acatttcacc gtcattctct
361  actggtataa tttgaaagtg ctttattttt tgtccatgac tcattgacag tacgaaagtt
421  ttgggggttac tctgactatc ccgtaccaag aaaactccat ccacaagtcc ttgctgaata
481  atcaatcgct gagcctcatc tctagaaatt ttgtggtgaa accatggctg ggaccggtgg
541  atagccatgt ttgtggcaaa gcttctggaa gaggcagggg ggctccggga gtgccagggc
601  gtaa

```

L2 ANSWER 143 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI505286 GenBank (R)  
GenBank ACC. NO. (GBN): AI505286  
GenBank VERSION (VER): AI505286.1 GI:4403137  
CAS REGISTRY NO. (RN): 228210-72-8  
SEQUENCE LENGTH (SQL): 578  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 11 Mar 1999  
DEFINITION (DEF): vp98h08.x1 Stratagene mouse diaphragm (#937303) Mus  
musculus cDNA clone IMAGE:1092831 3' similar to  
TR:Q14449 Q14449 \*\*\*GRB14\*\*\* . ;, mRNA sequence.  
SOURCE:  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 148 a 135 c 111 g 179 t 5 others

COMMENT:

Contact: Marra M/WashU-NCI Mouse EST Project 1999  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@watson.wustl.edu  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
MGI:599063

This clone was previously sequenced on the 5' end only, this new  
data is from the 3' end

High quality sequence stop: 379.

REFERENCE: 1 (bases 1 to 578)  
AUTHOR (AU): Marra,M.; Hillier,L.; Kucaba,T.; Martin,J.; Beck,C.;  
Wylie,T.; Underwood,K.; Steptoe,M.; Theising,B.;  
Allen,M.; Bowers,Y.; Person,B. ; Swaller,T.;  
Gibbons,M.; Pape,D.; Harvey,N.; Schurk,R.; Ritter,E. ;  
Kohn,S.; Shin,T.; Jackson,Y.; Cardenas,M.; McCann,R. ;  
Waterston,R.; Wilson,R.  
TITLE (TI): The WashU-NCI Mouse EST Project 1999  
JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..578	/organism="Mus musculus" /db-xref="taxon:10090" /clone="IMAGE:1092831" /clone-lib="Stratagene mouse diaphragm (#937303)" /tissue-type="diaphragm" /dev-stage="adult" /lab-host="SOLR (kanamycin resistant)" /note="Organ: diaphragm; Vector: pBluescript SK-; Site-1: EcoRI; Site-2: XhoI; Cloned unidirectionally from mRNA prepared from diaphragm muscle. Primer: oligo dT. Average insert size: 1.5 kb. Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GAATTCGGCACGAG 3' ~3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTTTTTT

SEQUENCE (SEQ):

```
1 aataagggttt aattttaact aataaattta aaggcatgag tgtaatagga atccaagttt
61 tcactaattt gcaatgtgtg acctattttt ttttgtaacc cgcaggtgaa atcttctttt
121 caccatggtt tgttttcagc cttgtgatct ctctctctct ctctaatacat tctcctttgc
181 atccttcttc ttctgtagtg taacgagtga cacacagttt ggctaaacag ccatacctagc
241 acagtaatgc ttcagcttgc aaggaaggac cccctgtgtg agctggtaga actccaccag
301 ctggatgagg tctgtgaact tcgtatggcc atcatccaga gtatggaaca gctcaccatc
361 atcttctacg ggtataatnt gatagtgttt tatcttttgt ccatgactca ttgacagtac
421 aaaagttctg gggttactct gactatcccg taccaagaaa actncatcca caggccctcg
481 ccgaatgatc agncgctgag cctcatctct tgaaatnctg tggtgaaacc catgttggaac
541 cgatggaaac catgttcaca ccanaactct ggaagggc
```

L2 ANSWER 144 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI494168 GenBank (R)  
GenBank ACC. NO. (GBN): AI494168  
GenBank VERSION (VER): AI494168.1 GI:4395171  
CAS REGISTRY NO. (RN): 228132-01-2  
SEQUENCE LENGTH (SQL): 368  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 13 Apr 1999  
DEFINITION (DEF): ti14f01.y1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
IMAGE:2130457 5' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.  
SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 98 a 71 c 58 g 141 t

COMMENT:

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 416 Std Error: 0.00  
Seq primer: -40RP from Gibco.

REFERENCE: 1 (bases 1 to 368)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..368	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2130457" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 tcctaaggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 ttgtcttatt tgcaatgcac aaactatatt ttgtgaactt gcagggtgaaa tacattcttt
121 tcacatgata atgttttcgc ccttatttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag tttaataagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttctc
361 ctcgtgcc
```

L2 ANSWER 145 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI425417 GenBank (R)  
GenBank ACC. NO. (GBN): AI425417  
GenBank VERSION (VER): AI425417.1 GI:4271348  
CAS REGISTRY NO. (RN): 226504-01-4  
SEQUENCE LENGTH (SQL): 503  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 15 Mar 2000  
DEFINITION (DEF): my18a09.y1 Barstead mouse heart MPLRB3 Mus musculus  
cDNA clone IMAGE:696184 5' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.  
SOURCE: house mouse.  
ORGANISM (ORGN): Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 103 a 171 c 143 g 86 t

COMMENT:

Contact: Marra M/WashU-NCI Mouse EST Project 1999  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@watson.wustl.edu  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
This read is a RESEQUENCE of a previously sequenced mouse clone  
This read has been verified (found to hit its original self in the  
correct orientation)  
MGI:429744  
Seq primer: -40RP from Gibco  
High quality sequence stop: 493  
POLYA=No.

REFERENCE: 1 (bases 1 to 503)  
AUTHOR (AU): Marra,M.; Hillier,L.; Kucaba,T.; Martin,J.; Beck,C.;  
Wylie,T.; Underwood,K.; Steptoe,M.; Theising,B.;  
Allen,M.; Bowers,Y.; Person,B. ; Swaller,T.;  
Gibbons,M.; Pape,D.; Harvey,N.; Schurk,R.; Ritter,E. ;  
Kohn,S.; Shin,T.; Jackson,Y.; Cardenas,M.; McCann,R.;  
Waterston,R.; Wilson,R.  
TITLE (TI): The WashU-NCI Mouse EST Project 1999  
JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..503	/organism="Mus musculus" /strain="BALB/c" /db-xref="taxon:10090" /clone="IMAGE:696184" /clone-lib="Barstead mouse heart MPLRB3" /sex="mixed" /tissue-type="heart" /dev-stage="6 weeks" /lab-host="DH10B" /note="Organ: heart; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: EcoRI; Site-2: NotI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACGAATCTGAAGTGGGAGCGGCCGCCCTTT TTTTTTTTTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Eco RI adaptors [CTTGGATTGGTACC], digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library constructed by Bob Barstead."

SEQUENCE (SEQ):

```
1 aattcggatc caaggcaagg cgctcgctgc ctgcaaccgc tcggctctgc tcgccccag
61 cccttcgtag ctttcgcctc gcggtcgatg actccctaga cccctggcct acgaccatga
121 ccacgtccct gcaagacggg cagagcgccg cgggccgggc aggcgcccag gattcgccgc
181 tggcagtgca ggtgtgccgc gttgccccagg gcaagggaga cgcccaggac ccggcgccag
241 tccccggact gcacgcgctg tccccgcct cccatgcgac cctccgcggt gccatagaca
301 ggagaaaaat gaaagatctg gatgttctgg aaaagccacc cattcccaac ccctttcctg
361 agctctgctg ctctccgctt acatctgtgc tgtcagcagg cctgtttccc agggccaatt
421 caaggaagaa gcaggtgatt aaagttaca gcgaggatga aaccagcaga gcattagagg
481 tgcccagtga catcacagcc cga
```

L2 ANSWER 146 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI383743 GenBank (R)  
GenBank ACC. NO. (GBN): AI383743  
GenBank VERSION (VER): AI383743.1 GI:4196524  
CAS REGISTRY NO. (RN): 225333-52-8  
SEQUENCE LENGTH (SQL): 423  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag

DATE (DATE): 18 Mar 1999  
DEFINITION (DEF): tc47e05.x1 Soares\_total\_fetus\_Nb2HF8\_9w Homo sapiens  
cDNA clone IMAGE:2067776 3' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 116 a 74 c 69 g 162 t 2 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Insert Length: 967 Std Error: 0.00  
Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 423)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..423	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2067776" /clone-lib="Soares-total-fetus-Nb2 HF8-9w" /dev-stage="8-9 weeks" /lab-host="DH10B" /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from pooled 8-9 week (total) fetus material with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGGAGCGGCCGCTTAAT TTTTTTTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 cctaagggttt aattttaact aatgaatttt aaatgatgaa tgtaaagtca atccaagtct
61 ttgcttatttt gcaatgcaca aactattttt ttgtaacttg caggtgaaat acattctttt
121 cacatgataa cgttttcgcc cttattttatg gtcttttatt atttttcttg agtccttttc
181 cttcaatagt ttaataagtc acttctggct tgcttagaga gcaatcctag cacaataatg
241 tttcaacttg caaggaagaa cgcccttatt gaggtagatag aactccacca gctgtattag
301 atctgtaaat cttgtgtggc catcatccag tgtgtggaac atttcaccgt catcttctac
361 tgggtataatt ngaaagtgtc ttattntttt gtcattgactc attgacagta caaaagtttt
421 ggg
```

L2 ANSWER 147 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI364971 GenBank (R)  
GenBank ACC. NO. (GBN): AI364971  
GenBank VERSION (VER): AI364971.1 GI:4124660  
CAS REGISTRY NO. (RN): 224494-55-7  
SEQUENCE LENGTH (SQL): 318  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 16 Feb 1999  
DEFINITION (DEF): qz41h03.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
IMAGE:2029493 3' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 90 a 54 c 48 g 125 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 447 Std Error: 0.00  
Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 318)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..318	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2029493" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 ttcctaaggt ttaattttta ctaatgaatt ttaaattgatg aatgtaaagt caatccaagt
61 ctttgcttat ttgcaatgca caaactattt ttttgtaact tgcagggtgaa atacattctt
121 ttcacatgat aatgttttcg cccttattta tggnccttta ttatttttct tgagtccttt
181 tccttcaata gtttaataag tcacttctgg cttgtctaga gagcaatcct agcacaataa
241 tgtttcaact tgcaaggaag aacgccctta ttgagttgat agaactccac cagctgtatt
301 agatctgtaa atcttgtg
```

L2 ANSWER 148 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI263214 GenBank (R)  
GenBank ACC. NO. (GBN): AI263214  
GenBank VERSION (VER): AI263214.1 GI:3871417  
CAS REGISTRY NO. (RN): 221598-25-0  
SEQUENCE LENGTH (SQL): 382  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 3 Feb 1999  
DEFINITION (DEF): qz36f04.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone  
IMAGE:2028991 3' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 112 a 59 c 56 g 154 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 730 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 381.

REFERENCE: 1 (bases 1 to 382)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..382	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2028991" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 tttttttttt tttttttttt cctaagggtt aattttaact aatgaatttt aaatgatgaa
61 tgtaaagtca atccaagtct ttgcttattt gcaatgcaca aactattttt ttgtaacttg
121 caggggaaat acattctttt cacatgataa tgttttcgcc cttatttatg gtctttttatt
181 atttttcttg agtccttttc cttcaatagt ttaataagtc acttctggct tgtctagaga
241 gcaatcctag cacaataatg tttcaacttg caaggaaaaa cgcccttatt gagttgatag
301 aactcacaca cagcccccct tgggggtttt attttttaaa aggaaaaatt tcccggttgg
361 gggtttttnaa aaaaaaaaaa aa
```

L2 ANSWER 149 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF076619 GenBank (R)  
GenBank ACC. NO. (GBN): AF076619  
GenBank VERSION (VER): AF076619.1 GI:3650499  
CAS REGISTRY NO. (RN): 216295-93-1  
SEQUENCE LENGTH (SQL): 1950  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Rodents  
DATE (DATE): 26 Sep 1998  
DEFINITION (DEF): Rattus norvegicus molecular adapter rGrb14 (  
\*\*\*Grb14\*\*\* ) mRNA, complete cds.  
SOURCE: Norway rat.  
ORGANISM (ORGN): Rattus norvegicus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Rodentia;  
Sciurognathi; Muridae; Murinae; Rattus



NUCLEIC ACID COUNT (NA): 546 a 460 c 500 g 444 t  
REFERENCE: 1 (bases 1 to 1950)  
AUTHOR (AU): Kasus-Jacobi,A.; Perdereau,D.; Auzan,C.; Clauser,E.;  
Van Obberghen,E.; Mauvais-Jarvis,F.; Girard,J.;  
Burnol,A.F.  
TITLE (TI): Identification of the rat adapter \*\*\*Grb14\*\*\* as an  
inhibitor of insulin actions  
JOURNAL (SO): J. Biol. Chem., 273 (40), 26026-26035 (1998)  
OTHER SOURCE (OS): CA 130:20710  
REFERENCE: 2 (bases 1 to 1950)  
AUTHOR (AU): Kasus-Jacobi,A.; Perdereau,D.; Burnol,A.-F.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (03-JUL-1998) UPR 1524, CNRS, 9 rue Jules  
Hetzel, Meudon 92190, France

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1950	/organism="Rattus norvegicus" /strain="Wistar" /db-xref="taxon:10116"
gene	1..1950	/gene="Grb14"
CDS	70..1686	/gene="Grb14" /note="signal transduction protein; Grb7 family member; binds the insulin receptor" /codon-start=1 /product="molecular adapter rGrb14" /protein-id="AAC61478.1" /db-xref="GI:3650500" /translation="MTTSLQDQGSAAGRAGAQDS PLAVQVCRVAQKGKGAQDPAQVPG LHALSPASDATRRGAMDRRKAKDLEVQETPSIPN PFPELCCSPLTSVLSAGLFPRSNS RKKQVIKVVSEDETSRALEVPSDVTARDVCQLLI LKNHYVDDNSWTLFEHLSHTGVER TVEDHELLTEVLSHWMEEDNKLYLRKNYAKYEF FKNPMYFFPEHMFVSFATEMNGDRS LTQIPQVFLSSNTYPEIHGFLHAKEQGKKSWKKA YFFLRRSGLYFSTKGTSKEPRHLQ FFSEFSTSNVYMSLAGKKKHGAPTPYGFCFKPTK AGGPRDLKMLCAEEDQSRMCWVTA IRLLKYGMLYQNYMHPSQARSACSSQSVSPMRS VSENSLVAMDFSGQKTRVIDNPTE ALSVAVEEGLAWRKKGCLRLGNHGSPTAPSQSSA VNMALHRSQPWFHHRISRDEAQL ITRQGPVDGVFLVRDSQSNPRTFVLSMSHGQKIK HFQIIPVEDDGEVFHTLDDGHTKF TDLIQLVEFYQLNKGVLPCCLKHYCARMV"

SEQUENCE (SEQ):

```

1 gctggacccc agcctttctt cgctttcgcc tcgcggtcga tgactcccta gacccccctgg
61 cctacgatca tgaccacgtc cctgcaagat gggcagagcg ccgcgggccg ggcggggcgcc
121 caggactccc cgctggcagt gcaggtgtgc cgcgttgccc agggcaaggg agacgcccag
181 gacccggctc aggtccccgg actgcacgcg ctgtccccgg cctcagatgc gacccgccgc
241 ggtgccatgg acaggagaaa agcgaagatg ctggaagttc aggaaacgcc ttccattcct
301 aaccccttcc ctgagctctg ctgttctcca cttacatcgg tgctgtcagc aggcctcttc
361 cccagatcaa attcaaggaa gaaacaggtg attaaagttt acagcgagga tgagaccagc
421 agagcgtagg aggtgcccag tgacgtcaca gcccgtgatg tctgccagct gttgatcctg
481 aagaaccact atgtcgacga caatagctgg accctttttg agcacctgtc tcacacaggc
541 gtagaaagga cagtggagga ccatgagctg ctgactgaag tgctgtctca ttgggtgatg
601 gaagaagata ataagctgta tcttagaaa aattatgcca aatatgaatt ttttaagaac
661 ccaatgtatt tctttccaga gcacatggtg tcttttgcaa ctgaaatgaa cgggtgacaga
721 tcccttacac agatcccgcg ggtgttttta agctcaaaca catatcctga aatccatggc
781 ttcctgcatg caaaggaaca ggggaagaag tcttggaaaa aagcttactt ttttctcaga
841 agatctggtt tatatttttc tactaaaggc acatccaagg aaccacggca cttgcagttt
901 ttcagtgaat tcagcactag taatgtttac atgtcactgg caggcaaaaa aaagcatgga
961 gcgcccagtc cctatggatt ctgctttaag cctaccaaaag caggagggcc ccgggacctg
1021 aaaatgctgt gtgcagaaga agaccaaagc aggatgtgct ggggtgaccgc cattagattg
1081 ctcaagtatg gcatgcagct ctaccagaat tatatgcata catccaagc tagaagcgcc
1141 tgcagttctc agagcgtatc acccatgaga agcgtatcag agaattccct agtagcaatg
1201 gacttctcag gtcagaagac cagagtcata gacaaccccc ctgaagccct ttcggttgcc
1261 gtttaggaag gactcgcttg gaggaaaaaa gcctggtttac gcctggggaa tcatgggagt
1321 cccactgcgc cctctcagag ctctgctgtg aacatggctc tccaccggtc ccagccatgg
1381 tttcaccaca gaatttctag agatgaagct cagcagttga ttaccgggca ggggcctgtg

```

```

1441 gatggagttt tcttggtagc ggatagtcag agtaacccca gaacttttgt actgtcaatg
1501 agtcacggac aaaagataaa acactttcaa attatacccg tggaagatga tggtagagtg
1561 ttccacaccc tggatgatgg ccatacgaag ttcacagatc tcatccagct cgtggagttc
1621 taccagctca acaagggggg ccttccttgc aagctgaagc attactgtgc taggatggct
1681 gtttagccaa actgtctgtg actcgttaaa ctatggaaga tggaggatgc aaagaagaat
1741 gattagagag agagagagag agagagagag agagagagag agagagagag agagaggaga
1801 tcacaaggct ggaaacaaat catgggtgaaa agaagattca cctgtggggtt acaaaaaaat
1861 aggtcacgta ttgcaaatga gtgaagactt ggattcgtat tactctcgtt actttaaat
1921 tattagttaa aattaaacct tattaataaa

```

L2 ANSWER 150 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI094433 GenBank (R)  
 GenBank ACC. NO. (GBN): AI094433  
 GenBank VERSION (VER): AI094433.1 GI:3433409  
 CAS REGISTRY NO. (RN): 392191-42-3  
 SEQUENCE LENGTH (SQL): 420  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 10 Nov 1998  
 DEFINITION (DEF): ou87b07.s1 Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1 Homo sapiens  
 cDNA clone IMAGE:1634773 3' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 115 a 75 c 67 g 163 t

COMMENT:

Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 This clone is available royalty-free through LLNL ; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 Insert Length: 796 Std Error: 0.00  
 Seq primer: -40m13 fwd. ET from Amersham  
 High quality sequence stop: 277.

REFERENCE: 1 (bases 1 to 420)  
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
 Project (CGAP), Tumor Gene Index  
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..420	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:1634773" /clone-lib="Soares-NSF-F8-9W-OT-PA-P-S1" /lab-host="DH10B" /note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Equal amounts of plasmid DNA from five normalized libraries were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 5 libraries. The pools consisted of the following libraries and cloneIDs: Soares NbHSF pool 1: 309384-310919, 323208-325895 Soares Nb2HP pool 1: 145032-147335, 147720-148103, 148872-149255, 15002 - 150407, 151176-152327 Soares Nb2HF8-9W pool 1: 758280-760583, 772104-774407 Soares NbHPA pool 1: 304776-306311, 320136-322823,

326280-326663 Soares NbHOT pool 1:  
723720-726407, 739080-740999  
Subtraction by Bento Soares and M.  
Fatima Bonaldo."

SEQUENCE (SEQ):

```
1 cctaaggttt aattttaact aatgaatttt aaatgatgaa tgtaaagtca atccaagtct
61 ttgcttattt gcaatgcaca aactattttt ttgtaacttg caggtgaaat acattctttt
121 cacatgataa cgttttcgcc cttattttatg gtcttttatt atttttcttg agtccttttc
181 cttcaatagt ttaataagtc acttctggct tgtctagaga gcaatcctag cacaataatg
241 tttcaacttg caaggaagaa cgcccttatt gagttgatag aactccacca gctgtattag
301 atctgtaaat cttgtgtggc catcatccag tgtgtggaac atttcaccgt catcttctac
361 tggтатаatt tgaaagtgct ttattttttg tccatgactc attgacagta cgaaagtttt
```

L2 ANSWER 151 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AA917917 GenBank (R)  
GenBank ACC. NO. (GBN): AA917917  
GenBank VERSION (VER): AA917917.1 GI:3057807  
CAS REGISTRY NO. (RN): 206814-02-0  
SEQUENCE LENGTH (SQL): 497  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 10 Jun 1998  
DEFINITION (DEF): o176g09.s1 NCI\_CGAP\_Kid3 Homo sapiens cDNA clone  
IMAGE:1535584 3' similar to TR:Q14449 Q14449  
\*\*\*GRB14\*\*\* . ;, mRNA sequence.  
SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo  
NUCLEIC ACID COUNT (NA): 136 a 95 c 79 g 187 t  
COMMENT:  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Insert Length: 664 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 440.  
REFERENCE: 1 (bases 1 to 497)  
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy  
Project (CGAP), Tumor Gene Index  
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..497	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:1535584" /clone-lib="NCI-CGAP-Kid3" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima

## SEQUENCE (SEQ):

```

1 cttttttttt ctaaggttta attttaacta atgaatttta aatgatgaat gtaaagtcaa
61 tccaagtctt tgcttatttg caatgcacaa actatttttt tgtaacttgc aggtgaaata
121 cattcttttc acatgataat gttttcgccc ttatttatgg tcttttatta ttttcttga
181 gtcctttttc ttcaatagtt taataagtca cttctggcct gtctagagag caatcctagc
241 acaataatgt ttcaacttgc aaggaagaac gcccttattg agttgataga actccaccag
301 ctgtattaga tctgtaaatt ttgtgtggcc atcatccagt gtgtggaaca tttcaccgtc
361 atcttctact ggtataattt gaaagtgcct tattttctgt ccatgactca ttgacagtac
421 gaaagttttg gggttactct gactatcccg taccaagaaa actcatccac aagtccttgc
481 tgaataatca atcgctg

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L2 ANSWER 152 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AA684351 GenBank (R)  
 GenBank ACC. NO. (GBN): AA684351  
 GenBank VERSION (VER): AA684351.1 GI:2670937  
 CAS REGISTRY NO. (RN): 200792-61-6  
 SEQUENCE LENGTH (SQL): 503  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 9 Dec 1997  
 DEFINITION (DEF): vm69d04.s1 Knowles Solter mouse 2 cell Mus musculus  
 cDNA clone IMAGE:1003495 5' similar to TR:Q14449 Q14449  
 \*\*\*GRB14\*\*\* . ;, mRNA sequence.

SOURCE: house mouse.  
 ORGANISM (ORGN): Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Rodentia;  
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 127 a 121 c 135 g 120 t

COMMENT:

Contact: Marra M/Mouse EST Project  
 WashU-HHMI Mouse EST Project  
 Washington University School of MedicineP  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: mouseest@watson.wustl.edu  
 This clone is available royalty-free through LLNL ; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 MGI:567711  
 Possible reversed clone: similarity on wrong strand  
 High quality sequence stop: 459.

REFERENCE: 1 (bases 1 to 503)  
 AUTHOR (AU): Marra,M.; Hillier,L.; Allen,M.; Bowles,M.; Dietrich,N.;  
 Dubuque,T.; Geisel,S.; Kucaba,T.; Lacy,M.; Le,M.;  
 Martin,J.; Morris,M.; Schellenberg,K.; Steptoe,M.;  
 Tan,F.; Underwood,K.; Moore,B.; Theising,B.; Wylie,T.;  
 Lennon,G.; Soares,B.; Wilson,R.; Waterston,R.  
 TITLE (TI): The WashU-HHMI Mouse EST Project  
 JOURNAL (SO): Unpublished (1996)

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..503	/organism="Mus musculus" /strain="B6D2 F1/J" /db-xref="taxon:10090" /clone="IMAGE:1003495" /clone-lib="Knowles Solter mouse 2 cell" /tissue-type="embryo" /dev-stage="2-cell" /lab-host="DH10B" /note="Organ: embryo; Vector: pBluescribe (modified); Site-1: MluI; Site-2: SalI; Cloned unidirectionally from mRNA prepared from 13,500 2-cell stage embryos. Primer: SalI(dT): 5'-CGGTCGACCGTCGACCGTTTTTTTTTTTTTTT T-3'. cDNAs were cloned into the MluI/SalI sites of a modified pBluescribe vector using

commercial linkers (NEB). Average  
insert size: 1.2 kb."

SEQUENCE (SEQ):

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1  ttccctagta gcaatggact tctcaggtga gaagagcaga gtcatagaca accccactga
61  agcgctttcg gttgctggtg aggaaggcct cgcgtggagg aaaaaaggct gtttacgcct
121 ggggaatcac ggaagcccca gtgccccctc ccagagctct gctgtgaaca tggctctcca
181 tcggtcccaa ccatggtttc accacagaat ttccagagat gaggtcagc ggctgatcat
241 tcggcagggg cctgtggatg gagttttctt ggtacgggat agtcagagta accccagaac
301 ttttgtactg tcaatgagtc atggacaaaa gataaaacac tatcaaatta tacccgtaga
361 agatgatggt gagctgttcc atactctgga tgatggccat acgaagtcca cagacctcat
421 ccagctggtg gagttctacc agctcaacag gggggtcctt ccttgcaagc tgaagcatta
481 ctgtgctagg atggctgttt agc
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L2 ANSWER 153 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): HSU69276 GenBank (R)  
GenBank ACC. NO. (GBN): U69276  
GenBank VERSION (VER): U69276.1 GI:1546834  
CAS REGISTRY NO. (RN): 181109-72-8  
SEQUENCE LENGTH (SQL): 2504  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Primates  
DATE (DATE): 17 Sep 1996  
DEFINITION (DEF): Human hGrbIRbeta/hGrb10 (GRBIRbeta/GRB10) mRNA,  
complete cds.  
SOURCE: human.  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo  
NUCLEIC ACID COUNT (NA): 639 a 652 c 654 g 555 t 4 others  
REFERENCE: 1 (bases 1 to 2504)  
AUTHOR (AU): Frantz,J.D.; Giorgetti-Peraldi,S.; Ottinger,E.A.;  
Shoelson,S.E.  
TITLE (TI): Human GrbIRbeta/Grb10: splice variants of an Insulin  
and Growth Factor Receptor-Binding Protein with PH and  
SH2 Domains  
JOURNAL (SO): Unpublished  
REFERENCE: 2 (bases 1 to 2504)  
AUTHOR (AU): Frantz,J.D.; Giorgetti-Peraldi,S.; Ottinger,E.A.;  
Shoelson,S.E.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (04-SEP-1996) Research Division, Joslin  
Diabetes Center, One Joslin Place, Boston, MA 02215,  
USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..2504	/organism="Homo sapiens" /db-xref="taxon:9606" /tissue-type="cerebellum and skeletal muscle"
gene	1..2504	/gene="GRBIRbeta/GRB10"
CDS	288..1898	/gene="GRBIRbeta/GRB10" /note="signal transduction protein containing PH and SH2 domains and a potential SH3 domain interaction site; insulin receptor binding protein, binds the insulins, PDGF, and EGF receptors; splice variant of hGrbIR; member of the Grb7/Grb10/Grb14 family" /codon-start=1 /product="hGrbIRbeta/hGrb10" /protein-id="AAB08431.1" /db-xref="GI:1546835" /translation="MNASLESLSYACSMQSDTVP LLQNGQHARSQPRASGPPRSIQPQ VSPRQRVQRSQPVHILAVRRLQEEDQQFRTSSLP AIPNPFPELCGPGSPVLTGSLP PSQAAAKQDVKFSEDTGSKVVEILADMTARDLC QLLVYKSHCVDDNSWTLVEHHPHL GLERCLEDHELVVQVESTMASESKFLFRKNYAKY EFFKNPMNFFPEQMVTWCQSNQS"

QTQLLQNFLNSSSCPEIQGFLHVKELGKKSWKKL  
 YVCLRRSGLYCSTKGTSKEPRHLQ  
 LLADLEDSNIFSLIAGRKYQYNAPT DHGLCIKPNK  
 VRNETKELRLLCAEDEQTRTCWMT  
 AFRLLYEMLLYQNYRIPQQRKALLSPFSTPVRS  
 VSENSLVAMDFSGQTGRVIENPAE  
 AQSAALEEGHAWRKRSTRMNILGSQSPLHPSTLS  
 TVIHRTQHWFHGRFSREESHRIIK  
 QQGLVDGLFLLRDSQSNPKAFVLT LCHHQKIKNF  
 QILPCEDDGQTFFSLDDGNTKFSD  
 LIQLVDFYQLNKGVL PCKLKHHCIRVAL"

SEQUENCE (SEQ):

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1  ggcgcaactt tggctcccag ggaacaaaca tcctccttct aagtggtaga tgtgggtgag
61  ctgaccctgc tggagtctgt cccctgggct accctctgct tccccccatt gtgagtgggc
121 cgtgaagcac agcgttgacc agacctaagc ctgtttgctc ccaggacaag gtggagcaga
181 cacctcgacg tcaacaagac ccggcaggac caggactccc cgcacagtct gaccgacttg
241 cgaatcacca ggaggatgat gtggacctgg aagccctggg gaacgatatg aatgcatccc
301 tggagagcct gtactcggcc tgcagcatgc agtcagacac ggtgccccctc ctgcagaatg
361 gccagcatgc ccgcagccag cctcgggctt caggccctcc tcgggtccatc cagccacagg
421 tgtccccgag gcagaggggtg cagcgtcccc agcctgtgca catcctcgct gtcaggcgcc
481 ttcaggagga agaccagcag tttagaacct catctctgcc ggccatcccc aatccttttc
541 ctgaactctg tggccctggg agccccctg tgctcacgcc ggggtcttta cctccgagcc
601 aggcgcgcg aaagcaggat gttaaagtct ttagtgaaga tgggacaagc aaagtgggtg
661 agattctagc agacatgaca gccagagacc tgtgcccaatt gctggtttac aaaagtcact
721 gtgtggatga caacagctgg aactagtggg agcaccaccc gcacctagga ttagagaggt
781 gcttgaaga ccattgagctg gtggctccagg tggagagtac catggccagt gagagtaaata
841 ttctattcag gaagaattac gcaaaatacg agttctttta aaatcccatg aatttcttcc
901 cagaacagat ggttacttgg tgccagcagt caaatggcag tcaaacccag cttttgcaga
961 attttctgaa ctccagtagt tgcctgaaa ttcaagggtt tttgcatgtg aaagagctgg
1021 gaaagaaatc atggaaaaag ctgtatgtgt gtttgcggag atctggcctt tattgtctca
1081 ccaagggaac ttcaaaggaa ccagacacc tgcagctgct ggccgacctg gaggacagca
1141 acatctttct cctgatcgct ggcaggaagc agtacaacgc ccctacagac cacgggctct
1201 gcataaagcc aaacaaagtc aggaatgaaa cttaaagagct gaggttgctc tgtgcagagg
1261 acgagcaaac caggacgtgc tggatgacag cgttcagact cctcaagtat gaaatgctcc
1321 tttaccgaac ttaccgaatc cctcagcaga ggaaggcctt gctgtccccg ttctcgacgc
1381 cagtgcgcag tgtctccgag aactccctcg tggcaatgga tttttctggg caaacaggagc
1441 gcgtgataga gaatccggcg gaggcccgag cgcagccct ggaggagggc cagcctgga
1501 ggaagcgaag cacacggatg aacatcctag gtagccaaag tccccctcac ctttctaccc
1561 taagtacagt gattcacagg acacagcact ggtttcacgg gaggttctcc agggaggaat
1621 cccacaggat cattaaacag caagggtctg tggatgggct ttttctcctc cgtgacagcc
1681 agagtaatcc aaaggcattt gtactcacac tgtgtcatca ccagaaaatt aaaaatttcc
1741 agatcttacc ttgcgaggac gacgggcaga cgttcttcag cctagatgac gggaacacca
1801 aattctctga cctgatccag ctggttgact tttaccagct gaacaaagga gtcctgcctt
1861 gcaaactcaa gcaccactgc atccgagtgg ccttatgacc gcagatgtcc tctcggctga
1921 agactggagg aagtgaacac tggagtgaag aagcgggtctg tgcgttggtg aagaacacac
1981 atcgattctg cacctgggga cccagagcga gatggggttg ttcggtgcca gcctaccaag
2041 attgactagt ttgttggaat taaacgacga tttgctgctg tgaaccagc agggtcgcct
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2161 ctggaatgat catcttggt tgggccgctt aggaacaaga accggagaga agtgattgga
2221 aatgaactct tgccctggaa taatcttgac aattaaaact gatattgtta cttttttgt
2281 attgatcact tttttggact ctttctttgt tttcaatatt gtattcagcc tattgttaga
2341 ggggggatgtg gcgtttcaac tcatataata cagaaagagt tttggaatgg gcagatttca
2401 aactgaatat ggggtcccaa atgttccag agggtcctcc acaacctctg ncgactacca
2461 cggtgtngga ttcagctccc aaatgacaaa cccagncctt ccca
  
```

L2 ANSWER 154 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): HUMGRB14R GenBank (R)  
 GenBank ACC. NO. (GBN): L76687  
 GenBank VERSION (VER): L76687.1 GI:1369836  
 CAS REGISTRY NO. (RN): 391791-70-1  
 SEQUENCE LENGTH (SQL): 2376  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 May 1998  
 DEFINITION (DEF): Homo sapiens \*\*\*Grb14\*\*\* mRNA, complete cds.  
 SOURCE: human.  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 631 a 652 c 583 g 510 t  
 REFERENCE: 1 (bases 1 to 2376)  
 AUTHOR (AU): Daly,R.J.; Sanderson,G.M.; Janes,P.W.; Sutherland,R.L.  
 TITLE (TI): Cloning and characterization of \*\*\*GRB14\*\*\* , a

novel member of the GRB7 gene family  
JOURNAL (SO): J. Biol. Chem., 271 (21), 12502-12510 (1996)  
OTHER SOURCE (OS): CA 125:27254

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..2376	/organism="Homo sapiens" /db-xref="taxon:9606"
mRNA	1..2376	/gene="Grb14"
gene	1..2376	/gene="Grb14"
5'UTR	1..540	/gene="Grb14"
CDS	541..2163	/gene="Grb14" /codon-start=1 /protein-id="AAC15861.1" /db-xref="GI:1369837" /translation="MTTSLQDQGQSAASRAAARDS PLAAQVCGAAQGRGDAHDLAPAPW LHARALLPLPDGTRGCAADRRKKKDLDPPEMP PSPNPFPPELCCSPITSVLSADLFPKA NSRKKQVIKVYSEDETSRALDVPDITARDVCQL LILKNHYIDDHSWTLFEHLPHIGV ERTIEDHELVIEVLSNWGIEEENKLYFRKNYAKY EFFKNPMYFFPEHMFVATETNGE ISPTQILQMFLSSSTYPEIHGFLHAKEQGKKS WKKIYFFLRRLSGLYFSTKGSKEPRH LQFFSEFGNSDIYVSLAGKKKHGAPTNYGFCFKP NKAGGPRDLKMLCAEEEQSRTCWV TAIRLLKYGMQLYQNYMHPYQGRSGCSSQSISPM RSISENSLVAMDFSGQKSRVIENP TEALSVAVEEGLAWRKKGCLRLGTHGSPTASSQS SATNMAIHRSPWFHHKISRDEAQ RLIIQQLVDGVFLVRDSQSNPKTFVLSMSHGQK IKHFQIIPVEDDGMFHTLDDGHT RFTDLIQLVEFYQLNKGVLPCCLKHYCARIAL" /gene="Grb14"
3'UTR	2164..2376	

## SEQUENCE (SEQ):

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121  gctcagcctc  gcgccccggt  gccacactga  ggagggcgcg  gtcccggcct  cgctccccgg
181  atgggacggc  gcgggagcaa  tgccagtggc  cccgagcgcc  ccggggccacg  cgcgggggccg
241  gccagccgct  ctgcgcctcc  ccccgcccc  tccgcgcctt  gcctcgccgc  ccgcgcgcgc
301  caccacccgg  ccgctcctcc  cctctcccca  cctctcctct  ccgccccctc  ccctcccccg
361  ccgcctcgca  gatagctcgg  ccgcgcgtct  cagccgcggg  ggccccgagc  gcaggcgggcg
421  agggcaccac  acctgcagag  cgctcgggct  gcctaggcgg  cacctcgctt  cccgccgcgc
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601  ccgctggccg  cccaggtgtg  tggcgctgcc  caggggaggg  gcgacgcccc  cgacctggcg
661  ccggccccct  ggctgcagcg  gcgagcgctc  ctgccccctc  cggacgggac  ccgcggctgt
721  gctgcagaca  ggagaaaaaa  gaaagatctt  gatgttccgg  aaatgccatc  tattccaaac
781  ccttttctct  agctatgctg  ttctccaatt  acatctgtgt  tgtcagcaga  cctatttccc
841  aaagcaaat  caaggaaaaa  acaggtgatt  aaagtataca  gtgaagatga  aaccagcagg
901  gcttttagatg  taccagtgta  cataacggct  cgagatgttt  gtcagctgtt  gatcctgaag
961  aatcattaca  ttgatgacca  cagctggacc  ctttttgagc  acctgcctca  cataggtgta
1021  gaaagaacaa  tagaagacca  cgaactgggt  attgaagtgc  tatccaactg  ggggatagaa
1081  gaagaaaaca  aactatactt  tagaaaaaat  tatgccaaat  atgagttctt  taaaaacca
1141  atgtattttt  ttccagagca  tatggtatct  ttgcaactg  aaaccaatgg  tgaaatatcc
1201  cccacacaga  ttttgcatat  gtttctgagt  tcaagcacat  atcctgaaat  tcatggtttc
1261  ttacatgcga  agaacagggg  aaagaagtct  tggaaaaaaa  tttacttttt  tctaagaaga
1321  tctggttttt  attttctac  taaaggaaca  tcaaaggaac  cgcggcattt  gcagtttttc
1381  agcgaatttg  gcaatttgta  tatttatgtg  tctactggcg  gcaaaaaaaa  acatggagca
1441  ccgactaact  atggattctg  cttaagcctt  aacaaagcgg  gagggccccg  agacctgaaa
1501  atgctctgtg  cagaagaaga  gcagagtagg  acgtgctggg  tgaccgcgat  tagattgctt
1561  aagtatggca  tgcagctgta  ccagaattat  atgcatccat  atcaaggtag  aagtggctgc
1621  agttcacaga  gcatatcacc  tatgagaagt  atatcagaga  attccctggt  agcaatggac
1681  ttctcaggcc  agaaaagcag  agttatagaa  aatccctact  aagccctttc  agttgcggtt
1741  gaagaaggac  tcgcttgagg  gaaaaaagga  tgtttacgcc  tgggactctc  cggtagcccc
1801  actgcctctt  cacagagctc  tgccacaaac  atggctatcc  accggtccca  gccatggttt
1861  caccacaaaa  tttctagaga  tgaggctcag  cgattgatta  ttcagcaagg  acttggtgat
1921  ggagttttct  tggtagcgga  tagtcagagt  aacccccaaa  ctttcgtact  gtcaatgagt
1981  catggacaaa  aaataaagca  ctttcaaatt  ataccagtag  aagatgacgg  tgaaatgttc
2041  cacacactgg  atgatggcca  cacaagattt  acagatctaa  tacagctggt  ggagttctat
2101  caactcaata  agggcgttct  tccttgcaag  ttgaaacatt  attgtgctag  gattgctctc
2161  tagacaagcc  agaagtgact  tattaactaa  ttgaaggaaa  aggactcaag  aaaaataata
2221  aaagaccata  aataagggcg  aaaacattat  catgtgaaaa  gaatgtattt  cacctgcaag
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2281 ttacaaaaaa atagtttgtg cattgcaa at aagcaaaagac ttggattgac tttacattca  
2341 tcattttaaaa ttcattagtt aaaattaaac cttagg

L2 ANSWER 155 OF 156 AGRICOLA Compiled and distributed by the National  
Agricultural Library of the Department of Agriculture of the United States  
of America. It contains copyrighted materials. All rights reserved.  
(2004) on STN  
AN 2004:13636 AGRICOLA  
DN IND43619263  
TI Improved glucose homeostasis and enhanced insulin signalling in  
\*\*\*Grb14\*\*\* -deficient mice.  
AU Cooney, G.J.; Lyons, R.J.; Crew, A.J.; Jensen, T.E.; Molero, J.C.;  
Mitchell, C.J.; Biden, T.J.; Ormandy, C.J.; James, D.E.; Daly, R.J.  
AV DNAL (QH506.E46)  
SO EMBO journal, p. 582-593  
ISSN: 0261-4189  
NTE Includes references  
DT Article  
FS Non US  
LA English

L2 ANSWER 156 OF 156 CONFSCI COPYRIGHT 2004 CSA on STN  
AN 1999:27349 CONFSCI  
DN 99-039843  
TI Novel FGF signaling pathway u \*\*\*Grb14\*\*\* binds to FGF receptor 1  
AU Reilly, J.F.; Mickey, G.; Maher, P.A.  
CS Dep. Cell Biol., Scripps Res. Inst., La Jolla, CA 92037, USA  
SO American Society for Cell Biology, 9650 Rockville Pike, Bethesda, MD  
20814, USA; phone: (301) 530-7153; fax: (301) 530-7139; email:  
ascbinfo@ascb.org; URL: www.ascb.org/ascb/, Abstracts available. Price  
\$45. Paper No. 1365.  
Meeting Info.: 984 0478: 38th American Society for Cell Biology Annual  
Meeting (9840478). San Francisco, CA (USA). 12-16 Dec 1998. ASCB, Bio-Rad,  
Genentech, Jeol USA, Johnson & Johnson, Leica, Leadership Alliance,  
Mark-Rambar Family Foundation.  
DT Conference  
FS DCCP  
LA English  
STN INTERNATIONAL LOGOFF AT 15:32:52 ON 09 JUL 2004